

# Crimping

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# Crimping

After stripping, appropriate contacts or wire end ferrules can be crimped to the cable end.

Crimping produces a reliable connection between conductor and contact, and has more or less completely replaced soldering.

Crimping describes the production of a uniform, nondetachable connection between conductor and connecting element.

This should be achieved exclusively by the use of a high-quality precision tool. The result is a safe, reliable connection in both electrical and mechanical terms.

Weidmüller offers a wide product range of mechanical crimping tools.

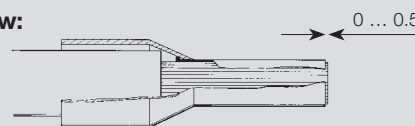
An integral ratchet mechanism with disengaging option guarantees optimum processing quality. Crimp connections produced with Weidmüller tools comply with international standards and specifications.

The DIN EN 60352-2 standard recommends that tools and contacts should come from the same manufacturer, since this is the only way to ensure consistently high quality. Otherwise, it is the user who is responsible for the quality. Weidmüller tools are designed to fit with Weidmüller contacts and thus are in full compliance with the DIN EN standard.

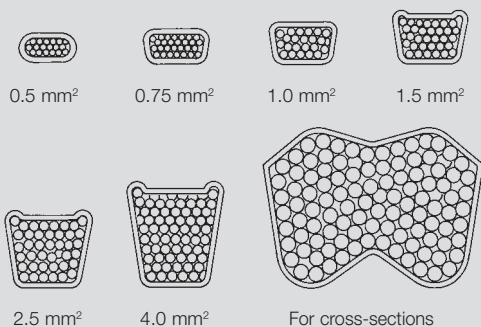
## Crimping of wire end ferrule: Optimum crimp of different cross-sections as an example

Examples for the visual inspection of a crimp connection with manual and automatic crimping tools by Weidmüller:  
The conductor insulation must be pushed into the plastic collar.  
The ferrule sleeve must be completely filled by the conductor.  
Depending on the cross-section, the conductor should protrude approx. 0 ... 0.5 mm from the ferrule sleeve.

### Cut-away view:



### Front view:



For cross-sections 6...50 mm², the crimping shape is approximately the same.

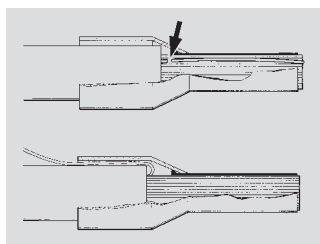


### Faulty crimping connections due to incorrect combination of cable and wire end ferrule

It is not possible for a tool to function reliably with every combination of conductor and crimping material.

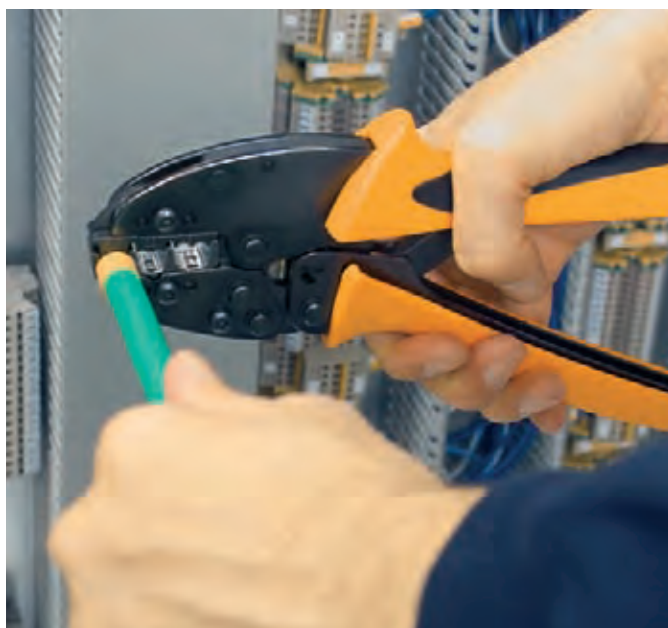
It is possible that the standard requirements for the crimped product can't be achieved, although taken on their own, both conductor and crimping material comply with the corresponding standard. The individual production tolerances of conductor and crimping material do not allow every conductor to be combined with every contact.

The combination of conductors, crimping material and crimping tool must be coordinated: this procedure is all the more difficult given the large number of products on the market. This means that the material must be defined and the crimping result tested, ensuring that the test, and later on the tool, satisfy the same conditions.



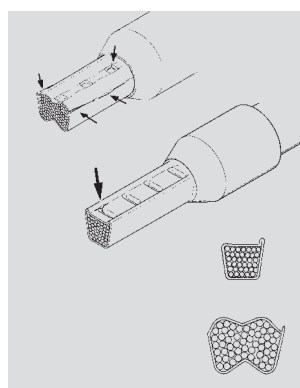
**Single conductor squeezed off**

**Single conductor pushed back**



### Faults which can occur during crimping:

- Cracks along the sides and die impressions
- Splitting of the ferrules
- Asymmetrical crimping shape
- Extreme burrs formed along the sides
- Ferrule not filled by the conductor
- Single conductors pushed back protruding from the collar
- Single conductors squeezed off
- Plastic collar damaged by the crimping jaw
- Conductor insulation not pushed into the plastic collar
- Ferrule bent longitudinally after crimping



Formation of cracks at the sides.  
Sides split open

Formation of cracks at the  
impressions of the crimping jaw

Asymmetrical crimping shape  
Burr formation on one side

Asymmetrical crimping shape  
Burr formation on one side

#### Note:

The ferrule must not split open after it has been connected once in any Weidmüller terminal corresponding to the conductor cross-section (with a torque according to IEC 60947-1)

## Overview contacts – tools

| Crimp contact          | Crimp type                                                                          | Description                        | Conductor crossection in mm <sup>2</sup> | AWG               | Crimping tool    | Order No. tool | page |
|------------------------|-------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|-------------------|------------------|----------------|------|
| Wire end ferrules      |    | with plastic collar                | 0.5...2.5                                | 20...14           | Stripax Plus 2.5 | 9020000000     | D.6  |
|                        |                                                                                     | with / without plastic collar      | 0.14...6                                 | 26...10           | PZ 6 roto        | 9014350000     | D.9  |
|                        |                                                                                     |                                    | 0.25...1.5                               | 24...16           | PZ 1.5           | 9005990000     | D.7  |
|                        |                                                                                     |                                    | 0.5...4                                  | 20...12           | PZ 4             | 9012500000     | D.8  |
|                        |    | with / without plastic collar      | 0.14...6                                 | 24...10           | PZ 6 HEX         | 9013650000     | D.7  |
|                        |                                                                                     |                                    |                                          |                   |                  |                |      |
|                        |    | with / without plastic collar      | 0.25...6                                 | 24...10           | PZ 6/5           | 9011460000     | D.8  |
|                        |                                                                                     |                                    |                                          |                   |                  |                |      |
|                        |    | with / without plastic collar      | 0.5...6                                  | 20...10           | PZ 3             | 0567300000     | D.9  |
|                        |                                                                                     |                                    |                                          |                   |                  |                |      |
|                        |   | with / without plastic collar      | 6...16                                   | 10...6            | PZ 16            | 9012600000     | D.10 |
|                        |                                                                                     |                                    | 25...50                                  | 3...1             | PZ 50            | 9006450000     | D.11 |
| Twin wire end ferrules |  | Twin wire end ferrules             | 0.5...1                                  | 20...17           | PZ 1.5           | 9005990000     | D.7  |
|                        |                                                                                     |                                    | 0.5...4                                  | 20...12           | PZ 6 HEX         | 9013650000     | D.7  |
|                        |                                                                                     |                                    | 0.5...2.5                                | 20...14           | PZ 4             | 9012500000     | D.8  |
|                        |                                                                                     |                                    | 0.5...4                                  | 20...12           | PZ 6/5           | 9011460000     | D.8  |
|                        |                                                                                     |                                    | 0.5...4                                  | 20...12           | PZ 3             | 0567300000     | D.9  |
|                        |                                                                                     |                                    | 0.5...4                                  | 20...12           | PZ 6 roto        | 9014350000     | D.9  |
|                        |                                                                                     |                                    | 6...16                                   | 10...6            | PZ ZH 16         | 9013600000     | D.10 |
|                        |                                                                                     |                                    |                                          |                   |                  |                |      |
| Stamped contacts       |  | Weidmüller DFF series              | 0.22...2.5                               | 24...12           | HTF DFF          | 9014140000     | D.23 |
|                        |                                                                                     | Weidmüller ZRV and MKF series      | 0.2...0.35 / 0.5...1                     | 24...22 / 20...17 | HTF ZRV          | 9014840000     | D.23 |
|                        |                                                                                     | Weidmüller FEKO ZRV series         | 0.2...2.5                                | 24...12           | HTF AFK 2.5      | 9201040000     | D.23 |
|                        |  | Weidmüller RSV and DSTV-HD Systems | 0.14...1.5                               | 26...16           | HTF RSV 16       | 9013560000     | D.23 |
|                        |                                                                                     |                                    | 2.5                                      | 14...12           | HTF RSV 12       | 9013550000     | D.23 |
| Turned contacts        |  | Turned HD and HE contacts          | 4...10                                   | 12...7            | CTX CM 3.6       | 9018480000     | D.18 |
|                        |                                                                                     |                                    | 0.14...4                                 | 26...12           | CTX CM 1.6/2.5   | 9018490000     | D.18 |
|                        |                                                                                     | Turned HD, HE and HX contacts      | 0.14...6                                 | 26...10           | CTIN CM 1.6/2.5  | 9205430000     | D.18 |
|                        |                                                                                     |                                    | 1.5...10                                 | 16...7            | CTIN CM 3.6      | 9205440000     | D.18 |
|                        |                                                                                     |                                    |                                          |                   |                  |                |      |

| Crimp contact                        | Crimp type                                                                          | Bezeichnung                           | Description in mm <sup>2</sup>                    | AWG     | Crimping tool        | Order No. tool | page |
|--------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------|---------|----------------------|----------------|------|
| coaxial connectors                   |    | coaxial connectors                    |                                                   |         | HTG 58               | 9012000000     | D.21 |
|                                      |                                                                                     |                                       |                                                   |         | HTG 58/59            | 9012020000     | D.21 |
|                                      |                                                                                     |                                       |                                                   |         | HTG 59               | 9012010000     | D.21 |
|                                      |                                                                                     |                                       |                                                   |         | HTG 174              | 9012410000     | D.21 |
|                                      |                                                                                     |                                       |                                                   |         | HTX 138              | 9012400000     | D.21 |
|                                      |                                                                                     |                                       |                                                   |         | HTX 188              | 9011990000     | D.21 |
|                                      |    | coaxial connectors                    |                                                   |         | CTX 500              | 9006320000     | D.22 |
|                                      |                                                                                     |                                       |                                                   |         | CTX 501              | 9006370000     | D.22 |
|                                      |                                                                                     |                                       |                                                   |         | CTX 502              | 9006380000     | D.22 |
| insulated / non-insulated connectors |    | insulated connectors                  | 0.5...2.5                                         | 20...14 | HTI 15               | 9014400000     | D.16 |
|                                      |                                                                                     |                                       | 0.5...6                                           | 20...10 | CTI 6                | 9006120000     | D.15 |
|                                      |                                                                                     |                                       | 0.5...6                                           | 20...10 | CTI 6 G              | 9202850000     | D.15 |
|                                      |   | non-insulated connectors              | 0.5...6                                           | 20...10 | HTN 21               | 9014610000     | D.16 |
|                                      |                                                                                     |                                       | 0.5...6                                           | 20...10 | HTN 21 with end stop | 9014100000     | D.16 |
|                                      |                                                                                     |                                       | 10...25                                           | 7...3   | CTN 25 D4            | 9006220000     | D.17 |
|                                      |                                                                                     |                                       | 10...25                                           | 7...3   | CTN 25 D5            | 9006230000     | D.17 |
|                                      |  | WE-plug (4, 6 and 8-poles)            | 0.08...0.25                                       | 28...24 | TT 864 RS WE         | 9008120000     | D.25 |
|                                      |                                                                                     |                                       | 0.08...0.25                                       | 28...24 | TT 1064 RS WE        | 9008190000     | D.25 |
|                                      |                                                                                     | shielded WE-plug, system Hirose       | 0.08...0.25                                       | 28...24 | TT 8 GH              | 9005640000     | D.24 |
|                                      |                                                                                     |                                       | 0.08...0.25                                       | 28...24 | TT8 RS MP8           | 9202800000     | D.24 |
| Other contacts and plugs             |  | SUB-D contacts                        | 0.08...0.5                                        | 28...20 | HTF SUB-D            | 9013260000     | D.22 |
|                                      |                                                                                     |                                       |                                                   |         |                      |                |      |
|                                      |  | flat blade connectors and receptacles | 0.1...1 (connec. width 2.8)                       | 27...17 | HTF 28               | 9013090000     | D.14 |
|                                      |                                                                                     |                                       | 0.5...2.5 (connec. width 4.8)                     | 20...14 | HTF 48               | 9013080000     | D.14 |
|                                      |                                                                                     |                                       | 0.5...2.5 (connec. width 6.3)                     | 20...14 | HTF 63               | 9013400000     | D.14 |
|                                      |                                                                                     |                                       | 0.5...6 (connec. width 6.3)                       | 20...10 | CTF 63               | 9202860000     | D.14 |
|                                      |  | fibre optic connectors                | Station 1 (hexagon crimp):<br>3.15 / 6.0 H.-→ 3.9 |         | HTX LWL              | 9011360000     | D.19 |
|                                      |                                                                                     |                                       | Station 2 (round crimp):<br>4.85 / 6.0 H.-→ 5.5   |         | HTX LWL              | 9011360000     | D.19 |
|                                      |                                                                                     |                                       |                                                   |         |                      |                |      |
|                                      |  | IP67 connector                        |                                                   |         | IE-CT-SC-GOF         | 9205320000     | D.20 |
|                                      |                                                                                     |                                       |                                                   |         | IE-CT-LC-GOF         | 9205330000     | D.20 |
|                                      |                                                                                     |                                       |                                                   |         | IE-CT-SC-POF         | 9205340000     | D.20 |
|                                      |                                                                                     |                                       |                                                   |         | IE-CT-SC-GOF-P       | 9205350000     | D.20 |

Crimping tools for wire end ferrules

Crimping tools for wire end ferrules

Three functions:

- Cutting
- Stripping
- Crimping

- Wire-end ferrules with plastic collars, in compliance with DIN 46228-4
- Ratchet for precise crimping.
- Efficient operation: Change of tools not necessary, resulting in a significant time savings
- Automatic conveyance of wire-end ferrules
- Quick adjustment for differing cross-sections
- Easy handling of ferrule strips

Only Weidmüller fifty-piece linked ferrule strips can be processed. The use of wire-end ferrules on reels can lead to damage.

stripax® plus 2.5

0,5...2,5 mm²



- For processing linked wire-end ferrules from Weidmüller 0.5...2.5 mm² (~AWG 20...14)



Technical data

| Description of contact                              |     |
|-----------------------------------------------------|-----|
| Type of contact                                     |     |
| Crimping range                                      | mm² |
| Crimping range 1 (with multiple crimping positions) | mm² |
| Crimping range 2 (with multiple crimping positions) | mm² |
| Crimping range 3 (with multiple crimping positions) | mm² |
| Crimping range 4 (with multiple crimping positions) | -   |
| Crimping range 5 (with multiple crimping positions) | -   |
| Tool data                                           |     |
| Length                                              | mm  |
| Weight                                              | g   |
| Note                                                |     |

| STRIPAX PLUS 2.5                                                                                                     |            |
|----------------------------------------------------------------------------------------------------------------------|------------|
| Strips of linked wire-end ferrules                                                                                   |            |
| Crimping range                                                                                                       | 0.5...2.5  |
| Crimping range 1 (with multiple crimping positions)                                                                  | 0.5...0.75 |
| Crimping range 2 (with multiple crimping positions)                                                                  | 1...1.5    |
| Crimping range 3 (with multiple crimping positions)                                                                  | 2.5        |
| Crimping range 4 (with multiple crimping positions)                                                                  | -          |
| Crimping range 5 (with multiple crimping positions)                                                                  | -          |
| Tool data                                                                                                            |            |
| Length                                                                                                               | 210        |
| Weight                                                                                                               | 260        |
| Only strip-type products from Weidmüller can be processed. The use of wire-end ferrules on reels can lead to damage. |            |

Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| STRIPAX PLUS 2.5                                  | 1   | 9020000000 |
| Spare cutting blade                               | 1   | 9050340000 |
| Additional accessories can be found in Chapter J. |     |            |

## Crimping tools for wire end ferrules

- For wire-end ferrules with and without plastic collars, according to DIN 46228 T.1 and T.4 (~ AWG 24...16)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

## PZ 1.5

0.14...1.5 mm<sup>2</sup>

- Only one die for the whole cross-section range
- Crimp complies with Euro-Norm EN 60947-1
- Wire-end ferrule insertion from the front

## PZ 6 HEX

0.14...6 mm<sup>2</sup>

- Only one die for the whole cross-section range
- Wire-end ferrule insertion from the side



## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 4 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 5 (with multiple crimping positions) | mm <sup>2</sup> |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| PZ 1.5                                         |  |
|------------------------------------------------|--|
| Wire-end ferrules with/without plastic collars |  |
| 0.14...1.5                                     |  |
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| PZ 6 HEX                                            |          |
|-----------------------------------------------------|----------|
| Wire-end ferrules with/without plastic collars      |          |
| Crimping range                                      | 0.14...6 |
| Crimping range 1 (with multiple crimping positions) |          |
| Crimping range 2 (with multiple crimping positions) |          |
| Crimping range 3 (with multiple crimping positions) |          |
| Crimping range 4 (with multiple crimping positions) |          |
| Crimping range 5 (with multiple crimping positions) |          |
| Tool data                                           |          |
| Length                                              | 180      |
| Weight                                              | 380      |
| Note                                                |          |

## Ordering data

| Version |
|---------|
|         |
| Note    |
|         |

| Type   | Qty | Order No.  |
|--------|-----|------------|
| PZ 1.5 | 1   | 9005990000 |

Additional accessories can be found in Chapter J.

| Type     | Qty | Order No.  |
|----------|-----|------------|
| PZ 6 HEX | 1   | 9013650000 |

Additional accessories can be found in Chapter J.

## Crimping tools for wire end ferrules

### Crimping tools for wire end ferrules

- For wire-end ferrules with and without plastic collars, according to DIN 46228 T.1 and T.4 (~ AWG 24...16)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

#### PZ 4

0.5...4 mm<sup>2</sup>



- Only one crimping station for the whole cross-section range
- Wire-end ferrule insertion from the side

#### PZ 6/5

0.25...6 mm<sup>2</sup>



- Crimp complies with Euro-Norm EN 60947-1
- Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)
- Five crimping stations corresponding to the conductor cross-sections
- Wire-end ferrule insertion from the side



### Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 4 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 5 (with multiple crimping positions) | mm <sup>2</sup> |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| PZ 4                                           |  |
|------------------------------------------------|--|
| Wire-end ferrules with/without plastic collars |  |
| 0.5...4                                        |  |
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| PZ 6/5                                         |  |
|------------------------------------------------|--|
| Wire-end ferrules with/without plastic collars |  |
| 0.25...6                                       |  |
| 0.25...0.5                                     |  |
| 0.75...1.5                                     |  |
| 2.5                                            |  |
| 4                                              |  |
| 6                                              |  |
|                                                |  |
| 200                                            |  |
| 423                                            |  |
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### Ordering data

| Version |
|---------|
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| Type | Qty | Order No.  |
|------|-----|------------|
| PZ 4 | 1   | 9012500000 |

| Type   | Qty | Order No.  |
|--------|-----|------------|
| PZ 6/5 | 1   | 9011460000 |

| Note |
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|                                                   |
|---------------------------------------------------|
| Additional accessories can be found in Chapter J. |
|---------------------------------------------------|

|                                                   |
|---------------------------------------------------|
| Additional accessories can be found in Chapter J. |
|---------------------------------------------------|

## Crimping tools for wire end ferrules

- For wire-end ferrules with and without plastic collars, according to DIN 46228 T.1 and T.4 (~ AWG 24...16)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

## PZ 3

0.5...6 mm<sup>2</sup>

- Only one die for the whole cross-section range
- Wire-end ferrule insertion from the front

## PZ 6 roto

0.14...6 mm<sup>2</sup>

- Only one die for the whole cross-section range
- Rotating die enables wire-end ferrule insertion from the front or side



## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 4 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 5 (with multiple crimping positions) | mm <sup>2</sup> |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| PZ 3                                                |         |  |
|-----------------------------------------------------|---------|--|
| Wire-end ferrules with/without plastic collars      |         |  |
| Crimping range                                      | 0.5...6 |  |
| Crimping range 1 (with multiple crimping positions) |         |  |
| Crimping range 2 (with multiple crimping positions) |         |  |
| Crimping range 3 (with multiple crimping positions) |         |  |
| Crimping range 4 (with multiple crimping positions) |         |  |
| Crimping range 5 (with multiple crimping positions) |         |  |
| Tool data                                           |         |  |
| Length                                              | 200     |  |
| Weight                                              | 426     |  |
| Note                                                |         |  |

| PZ 6 Roto                                           |          |  |
|-----------------------------------------------------|----------|--|
| Wire-end ferrules with/without plastic collars      |          |  |
| Crimping range                                      | 0.14...6 |  |
| Crimping range 1 (with multiple crimping positions) |          |  |
| Crimping range 2 (with multiple crimping positions) |          |  |
| Crimping range 3 (with multiple crimping positions) |          |  |
| Crimping range 4 (with multiple crimping positions) |          |  |
| Crimping range 5 (with multiple crimping positions) |          |  |
| Tool data                                           |          |  |
| Length                                              | 200      |  |
| Weight                                              | 428      |  |
| Note                                                |          |  |

## Ordering data

| Version |
|---------|
|---------|

| Type | Qty | Order No.  |
|------|-----|------------|
| PZ 3 | 1   | 0567300000 |

| Type      | Qty | Order No.  |
|-----------|-----|------------|
| PZ 6 Roto | 1   | 9014350000 |

## Note

Additional accessories can be found in Chapter J.

Additional accessories can be found in Chapter J.

## Crimping tools for wire end ferrules

### Crimping tools for wire end ferrules

- For wire-end ferrules with and without plastic collars, according to DIN 46228 T.1 and T.4 (~ AWG 24...16)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

### PZ 16

6...16 mm<sup>2</sup>



- Crimp complies with Euro-Norm EN 60947-1
- Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)
- Three crimping stations corresponding to the conductor cross-sections
- Wire-end ferrule insertion from the side



### PZ ZH 16

Twin wire-end ferrules from 6...16 mm<sup>2</sup>



- Three crimping stations corresponding to the conductor cross-sections
- Wire-end ferrule insertion from the side



### Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 4 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 5 (with multiple crimping positions) | mm <sup>2</sup> |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| PZ 16                                          |  |
|------------------------------------------------|--|
| Wire-end ferrules with/without plastic collars |  |
| 6...16                                         |  |
| 6                                              |  |
| 10                                             |  |
| 16                                             |  |
|                                                |  |
|                                                |  |
| 200                                            |  |
| 418                                            |  |
|                                                |  |

| PZ ZH 16               |  |
|------------------------|--|
| Twin wire-end ferrules |  |
| 6...16                 |  |
| 6                      |  |
| 10                     |  |
| 16                     |  |
|                        |  |
|                        |  |
|                        |  |
| 250                    |  |
| 730                    |  |
|                        |  |

### Ordering data

| Version |
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|         |
| Note    |
|         |

| Type  | Qty | Order No.  |
|-------|-----|------------|
| PZ 16 | 1   | 9012600000 |

Additional accessories can be found in Chapter J.

| Type     | Qty | Order No.  |
|----------|-----|------------|
| PZ ZH 16 | 1   | 9013600000 |

Additional accessories can be found in Chapter J.

Crimping tools for wire end ferrules

- For wire-end ferrules with and without plastic collars, according to DIN 46228 T.1 and T.4 (~ AWG 24...16)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

PZ 50

25...50 mm²



- Crimp complies with Euro-Norm EN 60947-1
- Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)
- Three crimping stations corresponding to the conductor cross-sections
- Wire-end ferrule insertion from the side



Technical data

| Description of contact                              |     |
|-----------------------------------------------------|-----|
| Type of contact                                     |     |
| Crimping range                                      | mm² |
| Crimping range 1 (with multiple crimping positions) | mm² |
| Crimping range 2 (with multiple crimping positions) | mm² |
| Crimping range 3 (with multiple crimping positions) | mm² |
| Crimping range 4 (with multiple crimping positions) | -   |
| Crimping range 5 (with multiple crimping positions) | -   |
| Tool data                                           |     |
| Length                                              | mm  |
| Weight                                              | g   |
| Note                                                |     |

| PZ 50                                               |         |
|-----------------------------------------------------|---------|
| Wire-end ferrules with/without plastic collars      |         |
| Crimping range                                      | 25...50 |
| Crimping range 1 (with multiple crimping positions) | 25      |
| Crimping range 2 (with multiple crimping positions) | 35      |
| Crimping range 3 (with multiple crimping positions) | 50      |
| Crimping range 4 (with multiple crimping positions) | -       |
| Crimping range 5 (with multiple crimping positions) | -       |
| Length                                              | 250     |
| Weight                                              | 730     |
| Note                                                |         |

Ordering data

| Version |
|---------|
|---------|

| Type  | Qty | Order No.  |
|-------|-----|------------|
| PZ 50 | 1   | 9006450000 |

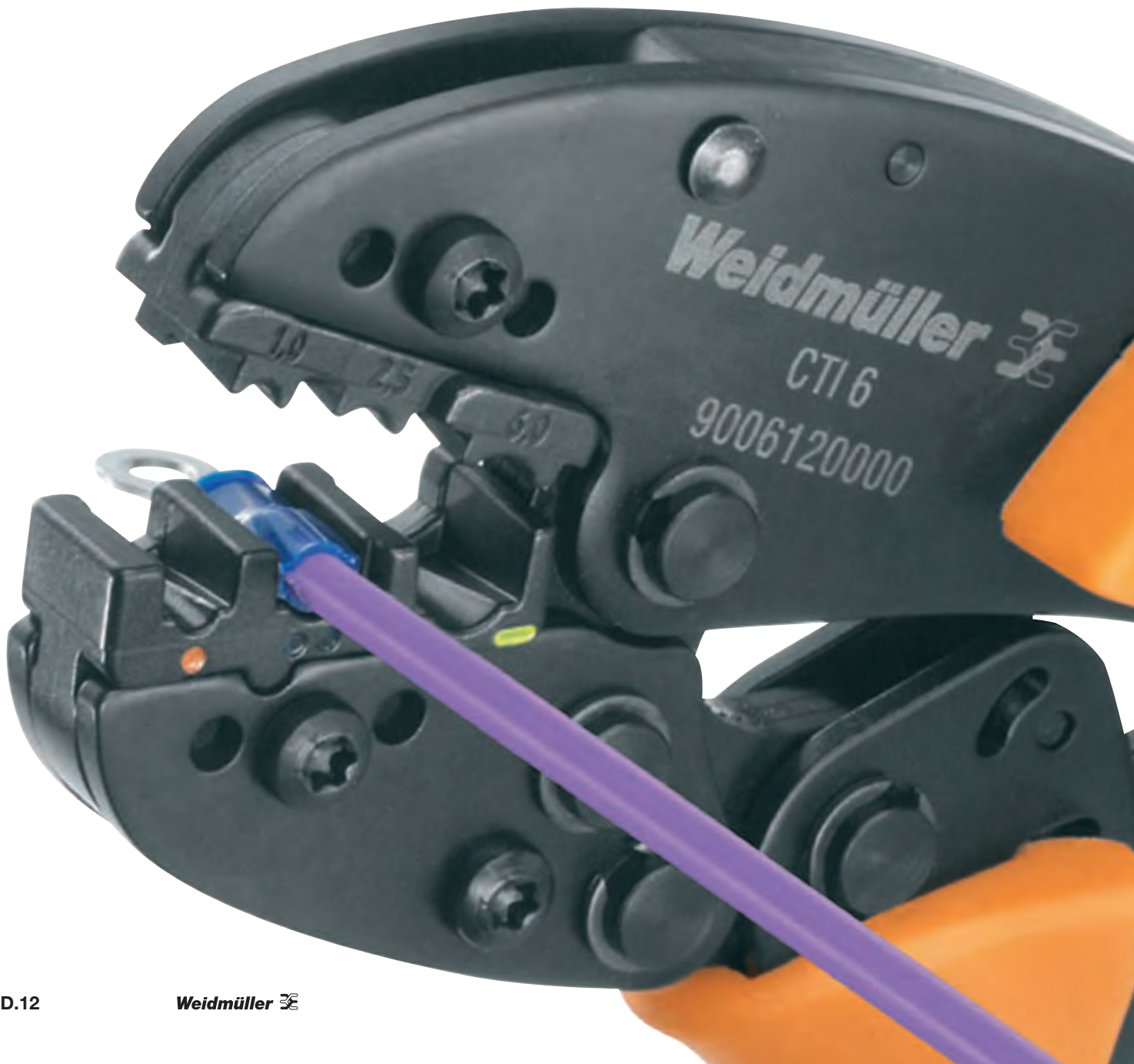
| Note |
|------|
|------|

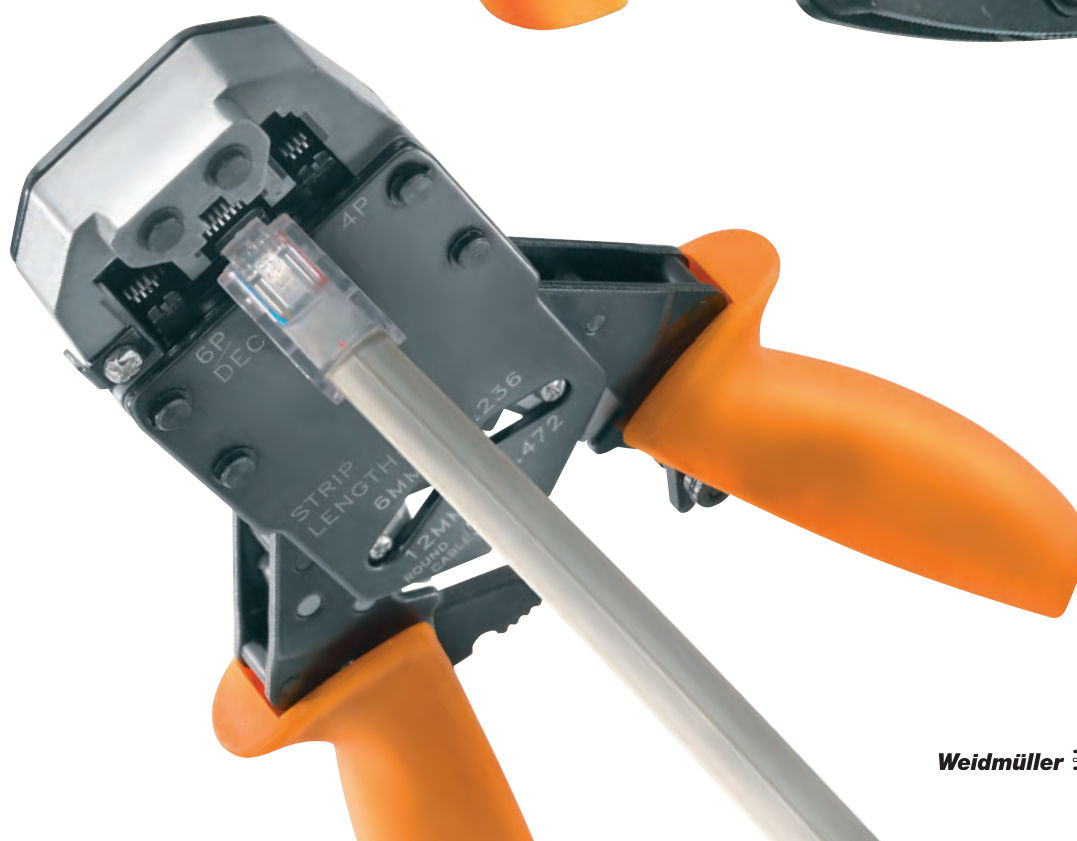
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|---------------------------------------------------|
| Additional accessories can be found in Chapter J. |
|---------------------------------------------------|

## Crimping tool for custom contacts

The crimping technique is one of the most reliable and most versatile connection methods. Extreme quality demands for a variety of different connections require that you use a wide variety of specialized crimping tools which are designed for specific contacts.

Weidmüller offers the right crimping tool for a wide variety of contacts. Regardless if you are using turned contacts, cable-lug connectors, insulated connectors or coaxial connectors.





## Crimping tools for other contacts

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With locator for exact positioning of the contacts.
- Contact and insulation are crimped in one step

## HTF 28 / HTF 48 / HTF 63

0.1...2.5 mm<sup>2</sup>

For cable-lug sleeves and cable-lug (flat blade) connectors with pre-rolled crimping claw

**HTF 28**Connector width: 2.8 mm, from 0.1...1.0 mm<sup>2</sup>**HTF 48**Connector width: 4.8 mm, from 0.5...2.5 mm<sup>2</sup>**HTF 63**Connector width: 6.3 mm, from 0.5...2.5 mm<sup>2</sup>

## CTF 63

0.5...6 mm<sup>2</sup>

For cable-lug sleeves and cable-lug (flat blade) connectors with pre-rolled crimping claw

**CTF 63**Connector width: 6.3 mm, from 0.5...6 mm<sup>2</sup>

## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Plug width                                          | mm              |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| HTF 28           | HTF 48           | HTF 63           |
|------------------|------------------|------------------|
| F-plug / -sleeve | F-plug / -sleeve | F-plug / -sleeve |
| 0.1...1          | 0.5...2.5        | 0.5...2.5        |
| 0.1...0.25       | 0.5...1          | 0.5...1          |
| 0.25...0.5       | 1.5...2.5        | 1.5...2.5        |
| 0.6...1          |                  |                  |
| 2.8              | 4.8              | 6.3              |
| 200              | 200              | 200              |
| 438              | 438              | 438              |

| CTF 63           |
|------------------|
| F-plug / -sleeve |
| 0.5...6          |
| 0.5...1          |
| 1.5...2.5        |
| 2.6...6          |
| 6.3              |
| 250              |
| 730              |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type   | Qty | Order No.  |
|--------|-----|------------|
| HTF 28 | 1   | 9013090000 |
| HTF 48 | 1   | 9013080000 |
| HTF 63 | 1   | 9013400000 |

| Type   | Qty | Order No.  |
|--------|-----|------------|
| CTF 63 | 1   | 9202860000 |

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.

## CTI 6 G

0,5...6 mm<sup>2</sup>

For PVC, PC, and polyamide insulated connectors  
**0.5...6 mm<sup>2</sup>**  
 (~AWG 20 ... AWG 10)

- Parallel-crimp profile, for crimping contact and insulation in one step



## CTI 6

0,5...6 mm<sup>2</sup>

For PVC, PC, and polyamide insulated connectors  
**0.5...6 mm<sup>2</sup>**  
 (~AWG 20 ... AWG 10)

- Double-crimp profile, for crimping contact and insulation in one step



## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Plug width                                          | -               |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| CTI 6 G                                             |           |
|-----------------------------------------------------|-----------|
| Insulated connector                                 |           |
| Crimping range                                      | 0.5...6   |
| Crimping range 1 (with multiple crimping positions) | 0.5...1.5 |
| Crimping range 2 (with multiple crimping positions) | 1.1...2.5 |
| Crimping range 3 (with multiple crimping positions) | 2.6...6   |
|                                                     |           |
|                                                     |           |
| Length                                              | 250       |
| Weight                                              | 747       |
|                                                     |           |

| CTI 6               |  |
|---------------------|--|
| Insulated connector |  |
| 0.5...6             |  |
| 0.5...1.5           |  |
| 1.1...2.5           |  |
| 2.6...6             |  |
|                     |  |
|                     |  |
| 250                 |  |
| 730                 |  |
|                     |  |

## Ordering data

| Version |  |
|---------|--|
|         |  |
| Note    |  |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| CTI 6 G                                           | 1   | 9202850000 |
| Note                                              |     |            |
| Additional accessories can be found in Chapter J. |     |            |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| CTI 6                                             | 1   | 9006120000 |
| Note                                              |     |            |
| Additional accessories can be found in Chapter J. |     |            |

## Crimping tools for other contacts

### Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.
- Tested according to DIN EN 60352 part 2

#### HTI 15

0.5...2.5 mm<sup>2</sup>



For PVC, PC, and polyamide insulated connectors  
**0.5...2.5 mm<sup>2</sup>**  
 (~AWG 20 ... AWG 14)

- Double-crimp profile, for crimping contact and insulation in one step



#### HTN 21

0.5...6 mm<sup>2</sup>



For uninsulated cable lugs and connectors  
**0.5...6 mm<sup>2</sup>**  
 (AWG 20...10)

- Rolled cable lugs, for example acc. to DIN 46234
- Tubular cable lugs
- Pin cable lugs
- Parallel and serial connectors
- Indent crimp
- Alternatively available with or without pivoting end stop



### Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Plug width                                          | -               |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| HTI 15                                              |           |  |
|-----------------------------------------------------|-----------|--|
| Insulated connector                                 |           |  |
| Crimping range                                      | 0.5...2.5 |  |
| Crimping range 1 (with multiple crimping positions) | 0.5...1.5 |  |
| Crimping range 2 (with multiple crimping positions) | 1.1...2.5 |  |
| Crimping range 3 (with multiple crimping positions) |           |  |
| Plug width                                          |           |  |
| Tool data                                           |           |  |
| Length                                              | 200       |  |
| Weight                                              | 434       |  |
| Note                                                |           |  |

| HTN 21                                          | HTN 21 M. AN           |
|-------------------------------------------------|------------------------|
| Uninsulated connection                          | Uninsulated connection |
| 0.5...6                                         | 0.5...6                |
| 0.5...1.5                                       | 0.5...1.5              |
| 1.1...2.5                                       | 1.1...2.5              |
| 2.6...6                                         | 2.6...6                |
| Tool data                                       |                        |
| Length                                          | 200                    |
| Weight                                          | 427                    |
| Note                                            |                        |
| End stop for secure contact positioning in tool |                        |

### Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                                              | Qty | Order No.  |
|---------------------------------------------------|-----|------------|
| HTI 15                                            | 1   | 9014400000 |
| Note                                              |     |            |
| Additional accessories can be found in Chapter J. |     |            |

| Type                          | Qty | Order No.  |
|-------------------------------|-----|------------|
| HTN 21                        | 1   | 9014610000 |
| HTN 21 with pivoting end stop | 1   | 9014100000 |
| Note                          |     |            |

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation

## CTN 25 D 4

10...25 mm<sup>2</sup>

For uninsulated cable lugs and connectors

10...25 mm<sup>2</sup>

- Rolled cable lugs, acc. to DIN 46234
- Pin cable lugs
- Parallel and serial connectors
- Indent crimp form



## CTN 25 D 5

10...25 mm<sup>2</sup>

For uninsulated cable lugs and connectors

10...25 mm<sup>2</sup>

- Rolled cable lugs, acc. to DIN 46235
- Pin cable lugs
- Parallel and serial connectors
- Hexagon crimp form



## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Plug width                                          | -               |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| CTN 25 D4                                           |                 |         |
|-----------------------------------------------------|-----------------|---------|
| Uninsulated connection                              |                 |         |
| Crimping range                                      | mm <sup>2</sup> | 10...25 |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> | 10      |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> | 16      |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> | 25      |
| Plug width                                          |                 | -       |
| Length                                              | mm              | 250     |
| Weight                                              | g               | 730     |
| Note                                                |                 |         |

| CTN 25 D5                                           |                 |         |
|-----------------------------------------------------|-----------------|---------|
| Uninsulated connection                              |                 |         |
| Crimping range                                      | mm <sup>2</sup> | 10...25 |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> | 10      |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> | 16      |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> | 25      |
| Plug width                                          |                 | -       |
| Length                                              | mm              | 250     |
| Weight                                              | g               | 730     |
| Note                                                |                 |         |

## Ordering data

| Version |  |
|---------|--|
| Note    |  |

| Type                  | Qty | Order No.  |
|-----------------------|-----|------------|
| CTN 25 D4             | 1   | 9006220000 |
| For rolled cable lugs |     |            |

| Type                   | Qty | Order No.  |
|------------------------|-----|------------|
| CTN 25 D5              | 1   | 9006230000 |
| For tubular cable lugs |     |            |

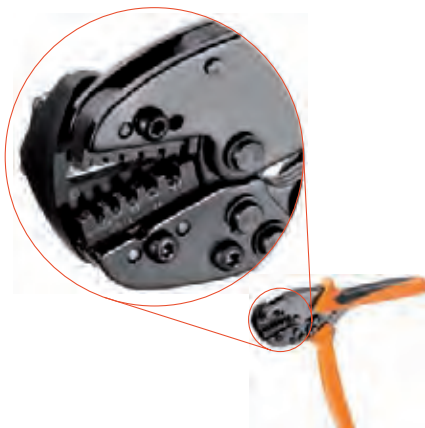
## Crimping tools for other contacts

### Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.

### CTX CM 1.6/2.5 / CTX CM 3.6

0.14...10 mm<sup>2</sup>



#### CTX CM 1.6/2.5

- Turned HD contacts
- Turned HE contacts
- ConCept M10 and M5 contacts
- 0.14...4.0 mm<sup>2</sup>

#### CTX CM 3.6

- Turned HD contacts
- ConCept M 3 contacts
- 4.0...10 mm<sup>2</sup>



### CTIN CM 1.6/2.5 / CTIN 3.6

0.14...10 mm<sup>2</sup>



#### CTIN CM 1.6/2.5

- Turned HD and HE contacts
- Turned HX contacts
- ConCept M10, M5 and M3 contacts
- 4-indent crimp
- 0.14...6.0 mm<sup>2</sup>

#### CTIN CM 3.6

- Turned HX contacts
- ConCept M 3 contacts
- 4-indent crimp
- 1.5...10.0 mm<sup>2</sup>



## Technical data

| Description of contact                              |                 |
|-----------------------------------------------------|-----------------|
| Type of contact                                     |                 |
| Crimping range                                      | mm <sup>2</sup> |
| Crimping range 1 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 2 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 3 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 4 (with multiple crimping positions) | mm <sup>2</sup> |
| Crimping range 5 (with multiple crimping positions) | mm <sup>2</sup> |
| Tool data                                           |                 |
| Length                                              | mm              |
| Weight                                              | g               |
| Note                                                |                 |

| CTX CM 1.6/2.5  | CTX CM 3.6      |
|-----------------|-----------------|
| Turned contacts | Turned contacts |
| 0.14...4        | 4...10          |
| 0.14...0.5      | 4               |
| 0.75...1        | 6               |
| 1.5             | 10              |
| 2.5             |                 |
| 4               |                 |
| 250             | 250             |
| 730             | 730             |

| CTIN CM 1.6/2.5                                                         | CTIN CM 3.6 |
|-------------------------------------------------------------------------|-------------|
| Turned HD, HE HX +Concept M10, M5, M3 HX turned and Concept M3 contacts |             |
| 0.14...6                                                                | 1.5...10    |
| 0.14...6                                                                | 1.5...10    |
|                                                                         |             |
|                                                                         |             |
|                                                                         |             |
| 230                                                                     | 230         |
| 1220                                                                    | 1220        |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                                                                                       | Qty | Order No.  |
|--------------------------------------------------------------------------------------------|-----|------------|
| CTX CM 1.6/2.5                                                                             | 1   | 9018490000 |
| CTX CM 3.6                                                                                 | 1   | 9018480000 |
| A large selection of contacts can be found in our current Heavy-Duty Connectors Catalogue. |     |            |

| Type                                                                                       | Qty | Order No.  |
|--------------------------------------------------------------------------------------------|-----|------------|
| CTIN CM 1.6/2.5                                                                            | 1   | 9205430000 |
| CTIN CM 3.6                                                                                | 1   | 9205440000 |
| A large selection of contacts can be found in our current Heavy-Duty Connectors Catalogue. |     |            |

Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation

HTX LWL



For fibre-optic cables with

- core diameter of 1 mm
- Crimping sleeve Ø 5.5 mm

Station 1: Hexagon crimp

Station 2: Round crimp (for HP connectors)



Technical data

| Description of contact |    |
|------------------------|----|
| Type of contact        |    |
| Station 1: A / B       | mm |
| Station 2: A / B       | mm |
| Station 3: A / B       | -  |
| C                      | -  |
| D                      | -  |
| Tool data              |    |
| Length                 | mm |
| Weight                 | g  |
| Note                   |    |

| HTX LWL               |                       |
|-----------------------|-----------------------|
| Fibre-optic connector |                       |
| Station 1: A / B      | 3.15 / 6              |
| Station 2: A / B      | 4.85 / 6              |
| Station 3: A / B      | -                     |
| C                     | -                     |
| D                     | -                     |
| Length                | 200                   |
| Weight                | 415                   |
| Note                  | H.-ø: Sleeve diameter |

Ordering data

| Version |
|---------|
|         |
| Note    |
|         |

| Type    | Qty | Order No.  |
|---------|-----|------------|
| HTX LWL | 1   | 9011360000 |
| Note    |     |            |

## Crimping tools for other contacts

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation

## IE-CT-SC-GOF / IE-CT-LC-GOF

## Crimping tools for IP 20 + 67 plugs



- For fibre-optic SC/ST, IP 20 and IP 67 connectors
- For fibre-optic LC and IP 67 connectors

## IE-CT-SC-POF / IE-CT-SC-GOF-P

## Crimping tools for IP 20 + 67 plugs



- For polymer fibre-optic SC/ST, IP 20 and IP 67 connectors
- For fibre-optic, ProfiNet, Mobil cable SC/ST and IP 67 connectors



## Technical data

| Tool data |
|-----------|
| Length    |
| Weight    |
| Note      |

| IE-CT-SC-GOF | IE-CT-LC-GOF |
|--------------|--------------|
| 250          | 250          |
| 730          | 730          |
|              |              |

| IE-CT-SC-POF | IE-CT-SC-GOF-P |
|--------------|----------------|
| 250          | 250            |
| 730          | 730            |
|              |                |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type         | Qty | Order No.  |
|--------------|-----|------------|
| IE-CT-SC-GOF | 1   | 9205320000 |
| IE-CT-LC-GOF | 1   | 9205330000 |

| Type           | Qty | Order No.  |
|----------------|-----|------------|
| IE-CT-SC-POF   | 1   | 9205340000 |
| IE-CT-SC-GOF-P | 1   | 9205350000 |

## Accessories

|      |
|------|
|      |
| Note |

| Type                                                                                                 | Qty | Order No.  |
|------------------------------------------------------------------------------------------------------|-----|------------|
| IE-CTI-SC-GOF                                                                                        | 1   | 9205280000 |
| IE-CTI-LC-GOF                                                                                        | 1   | 9205290000 |
| A large selection of plugs and connectors can be found in our current Industrial Ethernet Catalogue. |     |            |

| Type                                                                                                 | Qty | Order No.  |
|------------------------------------------------------------------------------------------------------|-----|------------|
| IE-CTI-SC-POF                                                                                        | 1   | 9205300000 |
| IE-CTI-SC-GOF-P                                                                                      | 1   | 9205310000 |
| A large selection of plugs and connectors can be found in our current Industrial Ethernet Catalogue. |     |            |

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation

## HTG174 / HTX138 / HTX188



For coaxial connectors such as BNC, TNC and N plugs

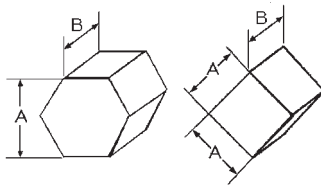
- **HTX 138**  
for connectors on Twinax coaxial cable

## HTG 58 / HTG 59 / HTG 58/59



For coaxial connectors such as BNC and TNC plugs

- With cables RG 58, RG 59, RG 62, RG 71....



A = Width across flats  
B = Crimping width  
C = Ø Outer sleeve of the coaxial plug  
D = Ø Centre contact

## Technical data

| Description of contact |    |
|------------------------|----|
| Type of contact        |    |
| Station 1: A / B       | mm |
| Station 2: A / B       | mm |
| Station 3: A / B       | -  |
| C                      | mm |
| D                      | mm |
| Tool data              |    |
| Length                 | mm |
| Weight                 | g  |
| Note                   |    |

| HTG 174           | HTX 138           | HTX 188           |
|-------------------|-------------------|-------------------|
| Coaxial connector | Coaxial connector | Coaxial connector |
| 4.52 / 10         | 8.24 / 10         | 3.25 / 10         |
| 1.72 / 2.3        | 1.72 / 2.3        | 1.72 / 2.3        |
| 5.4               | 9.5               | 3.8               |
| 2                 | 2                 | 2                 |
| 200               | 200               | 200               |
| 420               | 420               | 420               |

| HTG 58            | HTG 58/59         | HTG 59            |
|-------------------|-------------------|-------------------|
| Coaxial connector | Coaxial connector | Coaxial connector |
| 5.4 / 10          | 5.4 / 10          | 6.48 / 10         |
| 1.72 / 2.3        | 6.48 / 10         | 1.72 / 2.3        |
|                   | 1.72 / 2.3        |                   |
| 6.2               | 6.2/7.5           | 7.5               |
| 2                 | 2                 | 2                 |
| 200               | 200               | 200               |
| 420               | 420               | 420               |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type    | Qty | Order No.  |
|---------|-----|------------|
| HTG 174 | 1   | 9012410000 |
| HTX 138 | 1   | 9012400000 |
| HTX 188 | 1   | 9011990000 |

| Type      | Qty | Order No.  |
|-----------|-----|------------|
| HTG 58    | 1   | 9012000000 |
| HTG 58/59 | 1   | 9012020000 |
| HTG 59    | 1   | 9012010000 |

## Crimping tools for other contacts

### Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation

#### CTX 500 / 501 / 502



For coaxial connectors such as BNC, TNC and N plugs with coaxial cable

#### HTF SUB-D

AWG 28...20



For SUB-D contacts with open crimping claw

AWG 28....20



### Technical data

| Description of contact |    |
|------------------------|----|
| Type of contact        |    |
| Station 1: A / B       | mm |
| Station 2: A / B       | mm |
| Station 3: A / B       | -  |
| C                      | mm |
| D                      | mm |
| Tool data              |    |
| Length                 | mm |
| Weight                 | g  |
| Note                   |    |

| CTX 500           | CTX 501           | CTX 502           |
|-------------------|-------------------|-------------------|
| Coaxial connector | Coaxial connector | Coaxial connector |
| 10.54 / 12        | 10.9 / 12         | 9.3 / 12          |
| 2.54 / 3.17       | 2.45 / 3.17       | 1.75 / 2.3        |
| 12.2              | 12.6              | 10.7              |
| 2.9               | 2.8               | 2                 |
| 250               | 250               | 250               |
| 730               | 730               | 730               |

| HTF SUB-D |
|-----------|
| SUB-D     |
|           |
|           |
|           |
|           |
|           |
| 200       |
| 438       |

### Ordering data

| Version |
|---------|
|         |
| Note    |

| Type    | Qty | Order No.  |
|---------|-----|------------|
| CTX 500 | 1   | 9006320000 |
| CTX 501 | 1   | 9006370000 |
| CTX 502 | 1   | 9006380000 |

| Type      | Qty | Order No.  |
|-----------|-----|------------|
| HTF SUB-D | 1   | 9013260000 |

## Crimping tools for other contacts

- Ratchet for precise crimping.
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.
- Contact and insulation are crimped in one step

## HTF RSV 12 / HTF RSV 16

0.14...2.5 mm<sup>2</sup>

## HTF RSV 16

AWG 26...16 (~0.14...1.5 mm<sup>2</sup>)

## HTF RSV 12

AWG 4...12 (~2.5 mm<sup>2</sup>)

## HTF ZRV / HTF DFF

0.2...2.5 mm<sup>2</sup>

## HTF DFF

for contacts from the Weidmüller DFF Series

- 0.22...2.5 mm<sup>2</sup> (~AWG 24...12)

## HTF ZRV

for contacts from the Weidmüller ZRV contact system and for MKF flat contacts from Grote &amp; Hartmann and similar designs.

- 0.2...1.0 mm<sup>2</sup> (~AWG 24...17)

## HTF AFK

for FEKO ZRV contacts from Weidmüller's ZRV contact series or the AFK contacts from Grote &amp; Hartmann and compatible versions.

- 0.2...2.5 mm<sup>2</sup> (~AWG 24...12)



## Technical data

| Description of contact                              |     |
|-----------------------------------------------------|-----|
| Type of contact                                     |     |
| Crimping range                                      | AWG |
| Crimping range 1 (with multiple crimping positions) | AWG |
| Crimping range 2 (with multiple crimping positions) | AWG |
| Crimping range 3 (with multiple crimping positions) | AWG |
| Crimping range 4 (with multiple crimping positions) | AWG |
| Crimping range 5 (with multiple crimping positions) | -   |
| Tool data                                           |     |
| Length                                              | mm  |
| Weight                                              | g   |
| Note                                                |     |

| HTF RSV 12      | HTF RSV 16 WI   |
|-----------------|-----------------|
| RSV and DSTV-HD | RSV and DSTV-HD |
| 14...12         | 26...16         |
| 14              | 26...24         |
| 12              | 22...20         |
|                 | 22...20         |
|                 | 18...16         |
| Tool data       |                 |
| 205             | 205             |
| 445             | 445             |
| Note            |                 |

| HTF ZRV        | HTF DFF        | HTF AFK 2.5         |
|----------------|----------------|---------------------|
| Weidmüller ZRV | Weidmüller DFF | Weidmüller FEKO ZRV |
| 0.2...1        | 0.22...2.5     | 0.2...2.5           |
| 0.2...0.35     | 0.22...0.35    | 0.2...3.5           |
| 0.5...1        | 0.5...1        | 0.5...1.0           |
|                | 1.5...2.5      | 1.5...2.5           |
| Tool data      |                |                     |
| 200            | 205            |                     |
| 436            | 445            |                     |
| Note           |                |                     |

## Ordering data

| Version |
|---------|
|         |
| Note    |

| Type          | Qty | Order No.  |
|---------------|-----|------------|
| HTF RSV 12    | 1   | 9013550000 |
| HTF RSV 16 WI | 1   | 9013560000 |
| Note          |     |            |

| Type        | Qty | Order No.  |
|-------------|-----|------------|
| HTF ZRV     | 1   | 9014840000 |
| HTF DFF     | 1   | 9014140000 |
| HTF AFK 2.5 | 1   | 9201040000 |
| Note        |     |            |

## Pressing tools

### Pressing tools

- Pressing tool for modular plug connectors of the WE system (Western Electric and DEC)
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

#### Three functions:

- Pressing of plug connectors
- Pressing of enclosure shielding
- Crimping of cable shielding

### TT 8 GH



For 8-pole (RJ45) shielded plug (Hirose) for shielded data cables

AWG 28...24

### TT 8 RS MP 8



For 8-pole shielded RJ45 plug

AWG 27...24

Pressing of IDC contacts



Pressing of shielded enclosures



Crimping of shielded cable



### Technical data

| Description of contact |    |
|------------------------|----|
| No. of poles           |    |
| Tool data              |    |
| Length                 | mm |
| Weight                 | g  |
| Note                   |    |

| TT 8GH |  |  |
|--------|--|--|
| 8      |  |  |
| 260    |  |  |
| 750    |  |  |

| TT 8 RS MP 8 |  |  |
|--------------|--|--|
| 8            |  |  |
| 255          |  |  |
| 1251         |  |  |

### Ordering data

| Version |  |
|---------|--|
|         |  |
| Note    |  |

| Type   | Qty | Order No.  |
|--------|-----|------------|
| TT 8GH | 1   | 9005640000 |

| Type         | Qty | Order No.  |
|--------------|-----|------------|
| TT 8 RS MP 8 | 1   | 9202800000 |

| Note |  |
|------|--|
|------|--|

|                                                                                             |  |  |
|---------------------------------------------------------------------------------------------|--|--|
| A large selection of RJ 45 plugs can be found in our current Industrial Ethernet Catalogue. |  |  |
|---------------------------------------------------------------------------------------------|--|--|

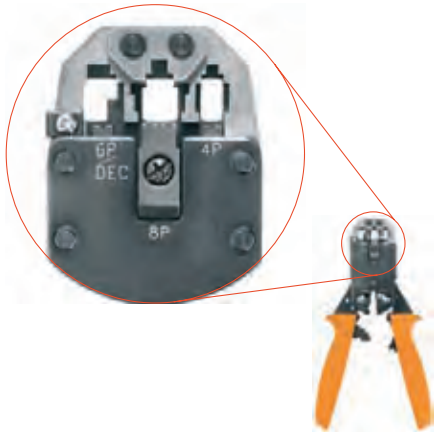
Pressing tools

- Pressing tool for the WE (Western Electric) and DEC modular connector systems
- Ratchet for precise crimping.
- Release option in the event of incorrect operation

3 functions:

- Cutting
- Stripping
- Crimping

TT 864 RS WE

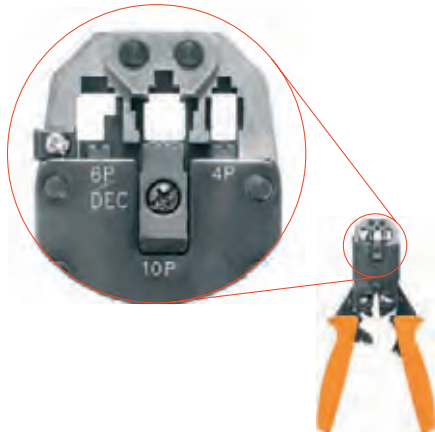


For up to 8-pole flat ribbon or flat-oval data cables

AWG 28...24

- For attachment of:
  - 4-pole WE plugs
  - 6-pole (RJ12) WE plugs
  - 6-pole (DEC) WE plugs
  - 8-pole (RJ45) WE plugs
- Triple crimping for RJ45
- For AMP plugs or versions with similar design
- Other versions on request

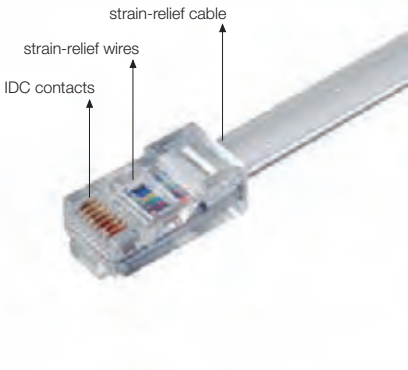
TT 1064 RS WE



For up to 10-pole flat ribbon or flat-oval data cables

AWG 28...24

- For attachment of:
  - 4-pole WE plugs
  - 6-pole (RJ12) WE plugs
  - 6-pole (DEC) WE plugs
  - 10-pole (RJ45) WE plugs
- Triple crimping for RJ45
- For AMP plugs or versions with similar design
- Other versions on request



Technical data

| Description of contact |    |
|------------------------|----|
| No. of poles           |    |
| Tool data              |    |
| Length                 | mm |
| Weight                 | g  |
| Note                   |    |

| TT 864 RS  |  |  |
|------------|--|--|
| 4, 6 and 8 |  |  |
|            |  |  |
| 205        |  |  |
| 525        |  |  |
|            |  |  |

| TT 1064RS   |  |  |
|-------------|--|--|
| 10, 6 and 4 |  |  |
|             |  |  |
| 205         |  |  |
| 531         |  |  |
|             |  |  |

Ordering data

| Version |
|---------|
|---------|

| Type      | Qty | Order No.  |
|-----------|-----|------------|
| TT 864 RS | 1   | 9008120000 |

| Type      | Qty | Order No.  |
|-----------|-----|------------|
| TT 1064RS | 1   | 9008190000 |

| Note |
|------|
|------|

| Note |
|------|
|------|

| Note |
|------|
|------|

Accessories

| Type                   |
|------------------------|
| Spare blade set TT 864 |
| Note                   |

| Type                   | Qty | Order No.  |
|------------------------|-----|------------|
| Spare blade set TT 864 | 1   | 9008130000 |
|                        |     |            |

| Type                   | Qty | Order No.  |
|------------------------|-----|------------|
| Spare blade set TT 864 | 1   | 9008130000 |
|                        |     |            |

## Crimping tools for connectors

### Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means high pressing force with little physical effort
- Fast feed helps pre-centering and extraction of the connecting parts
- Ratchet for proper trouble-free crimping
- Release option in the event of incorrect operation
- Comprehensive range of crimp inserts conforming with standards

### MTR 35 / MTR 110

6...120 mm<sup>2</sup>



- Tubular cable lugs ranging from 6...120 mm<sup>2</sup>
- Rolled CU-connectors ranging from 6...70 mm<sup>2</sup>
- Wire-end ferrules ranging from 25...95 mm<sup>2</sup>
- Retractable head for easy withdrawal of crimped connection

### MTR 160 / MTR 300

10...300 mm<sup>2</sup>



- Tubular cable lugs ranging from 10...300 mm<sup>2</sup>
- Rolled CU connectors ranging from 10...150 mm<sup>2</sup>
- Retractable head for easy withdrawal of crimped connection (only MTR 300)

### MTR 300

Turntable presses: 25...240 ms; 35...240 sec



### Technical data

| Description of contact                       |                 |
|----------------------------------------------|-----------------|
| Pressing force / Deviation                   | kN/mm           |
| Crimping range for copper connector (rolled) | mm <sup>2</sup> |
| Crimping range for copper tube connector     | mm <sup>2</sup> |
| Crimping range for insulated connectors      | mm <sup>2</sup> |
| Crimping range of wire end ferrule           | mm <sup>2</sup> |
| Tool data                                    |                 |
| Length / Weight                              | mm/kg           |
| Note                                         |                 |

| MTR 35                                                    | MTR 110  |
|-----------------------------------------------------------|----------|
| 25 / 8                                                    | 55 / 10  |
| 6...35                                                    | 6...70   |
| 6...50                                                    | 10...120 |
| 10...25                                                   | 10...35  |
| 25...50                                                   | 70...95  |
| 270 / 1.3                                                 |          |
| 420 / 2                                                   |          |
| For more details see crimp inserts on the following pages |          |

| MTR 160                                                                                                                 | MTR 300  |
|-------------------------------------------------------------------------------------------------------------------------|----------|
| 100 / 16                                                                                                                | 100 / 16 |
| 10...150                                                                                                                | 10...150 |
| 10...240                                                                                                                | 10...300 |
|                                                                                                                         | 10...120 |
| 540 / 4                                                                                                                 |          |
| 540 / 4                                                                                                                 |          |
| For more details see crimp inserts on the following pages<br>sm: sector conductor stranded; se: sector single conductor |          |

### Ordering data

| Version |
|---------|
|         |
| Note    |

| Type    | Qty | Order No.  |
|---------|-----|------------|
| MTR 35  | 1   | 9017500000 |
| MTR 110 | 1   | 9018020000 |
| Note    |     |            |

| Type    | Qty | Order No.  |
|---------|-----|------------|
| MTR 160 | 1   | 9017250000 |
| MTR 300 | 1   | 9021390000 |
| Note    |     |            |

### Accessories

| Carry cases |
|-------------|
| Note        |

| Type                                        | Qty | Order No.  |
|---------------------------------------------|-----|------------|
| MTR 35                                      | 1   | 9017840000 |
| MTR 110                                     | 1   | 9018040000 |
| Crimping inserts see on the following pages |     |            |

| Type                                        | Qty | Order No.  |
|---------------------------------------------|-----|------------|
| MTR 300                                     | 1   | 9021420000 |
| MTR 160                                     | 1   | 9017270000 |
| Crimping inserts see on the following pages |     |            |

## MTR 35

|                                                                            | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|----------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>DIN 46235</b> |                                     |                      |                        |            |
|                                                                            | 6                                   | 5                    | 5.5                    | 9017550000 |
|                                                                            | 10                                  | 6                    | 5.5                    | 9017560000 |
|                                                                            | 16                                  | 8                    | 5.5                    | 9017570000 |
|                                                                            | 25                                  | 10                   | 5.5                    | 9017580000 |
|                                                                            | 35                                  | 12                   | 5.5                    | 9017590000 |
|                                                                            | 50                                  | 14                   | 5.5                    | 9017760000 |

|                                                                               | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|-------------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>aluminium tube</b> cable lugs and connectors <b>DIN 46329</b> |                                     |                      |                        |            |
|                                                                               | 25                                  | 12                   | 7.0                    | 9017600000 |
|                                                                               | 35                                  | 14                   | 7.0                    | 9017610000 |
|                                                                               |                                     |                      |                        |            |
|                                                                               |                                     |                      |                        |            |

|                                                                                 | Cross-section [mm <sup>2</sup> ] | Crimping width [mm] | Order No.  |
|---------------------------------------------------------------------------------|----------------------------------|---------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>standard types</b> |                                  |                     |            |
|                                                                                 | 6                                | 6.0                 | 9017770000 |
|                                                                                 | 10                               | 6.0                 | 9017620000 |
|                                                                                 | 16                               | 6.0                 | 9017630000 |
|                                                                                 | 25                               | 6.0                 | 9017640000 |
|                                                                                 | 35                               | 6.0                 | 9017650000 |
|                                                                                 | 50                               | 6.0                 | 9017660000 |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Stamp and dies for copper cable lugs and connectors,<br><b>DIN 46234, DIN 46230</b> |                                  |            |
|                                                                                     | <b>Stamp</b>                     |            |
|                                                                                     | 6-35                             | 9017670000 |
|                                                                                     | <b>Die</b>                       |            |
|                                                                                     | 6                                | 9017680000 |
|                                                                                     | 10                               | 9017690000 |
|                                                                                     | 16                               | 9017700000 |
|                                                                                     | 25                               | 9017710000 |
|                                                                                     | 35                               | 9017720000 |
|                                                                                     | with control mark                |            |

|                                                                              | Cross-section [mm <sup>2</sup> ] | Order No.  |
|------------------------------------------------------------------------------|----------------------------------|------------|
| Die sets for insulated cable lugs and connectors,<br><b>DIN 46231, 46237</b> |                                  |            |
|                                                                              | 10                               | 9017990000 |
|                                                                              | 16                               | 9018000000 |
|                                                                              | 25                               | 9018010000 |

|                                      | Cross-section [mm <sup>2</sup> ] | Order No.  |
|--------------------------------------|----------------------------------|------------|
| Stamp and dies for wire end ferrules |                                  |            |
| Stamp                                | 25-50                            | 9017970000 |
| Die                                  | 25                               | 9017740000 |
| Die                                  | 35                               | 9017750000 |
| Die                                  | 50                               | 9017540000 |

## MTR 110

|                                                                            | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|----------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>DIN 46235</b> |                                     |                      |                        |            |
|                                                                            | 10/70                               | 6/16                 | 5.5                    | 9018100000 |
|                                                                            | 16/35                               | 8/12                 | 5.5                    | 9018110000 |
|                                                                            | 25/50                               | 10/14                | 5.5                    | 9018120000 |
|                                                                            | 95                                  | 18                   | 5.5                    | 9018130000 |
|                                                                            | 120                                 | 20                   | 5.5                    | 9018140000 |

|                                                                               | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|-------------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>aluminium tube</b> cable lugs and connectors <b>DIN 46329</b> |                                     |                      |                        |            |
|                                                                               | 16/35                               | 10/14                | 7.0                    | 9018800000 |
|                                                                               | 25/50                               | 12/16                | 7.0                    | 9018810000 |
|                                                                               | 70                                  | 18                   | 7.0                    | 9018820000 |
|                                                                               |                                     |                      |                        |            |
|                                                                               |                                     |                      |                        |            |

|                                                                                 | Cross-section [mm <sup>2</sup> ] | Crimping width [mm] | Order No.  |
|---------------------------------------------------------------------------------|----------------------------------|---------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>standard types</b> |                                  |                     |            |
|                                                                                 | 10/70                            | 7.0                 | 9018400000 |
|                                                                                 | 16/35                            | 7.0                 | 9018410000 |
|                                                                                 | 25/50                            | 7.0                 | 9018420000 |
|                                                                                 | 95                               | 5.5                 | 9018430000 |
|                                                                                 | 120                              | 5.5                 | 9018440000 |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Stamp and dies for copper cable lugs and connectors,<br><b>DIN 46234, DIN 46230</b> |                                  |            |
|                                                                                     | <b>Stamp</b>                     |            |
|                                                                                     | 6-70                             | 9018500000 |
|                                                                                     | <b>4-way die</b>                 |            |
|                                                                                     | 10/16/25/35                      | 9018600000 |
|                                                                                     | 16/25/35/50                      | 9018610000 |
|                                                                                     | <b>2-way die</b>                 |            |
|                                                                                     | 6/50                             | 9018620000 |
|                                                                                     | 10/70                            | 9018630000 |
|                                                                                     | <b>Single die</b>                |            |
|                                                                                     | 70                               | 9018640000 |
|                                                                                     | with control mark                |            |

|                                                                                    | Cross-section [mm <sup>2</sup> ] | Crimping width [mm] | Order No.  |
|------------------------------------------------------------------------------------|----------------------------------|---------------------|------------|
| Die sets for insulated cable lugs and connectors,<br><b>DIN 46231, 46237</b>       |                                  |                     |            |
|                                                                                    | 10                               | 7.0                 | 9018700000 |
|                                                                                    | 16                               | 8.0                 | 9018710000 |
|                                                                                    | 25                               | 9.0                 | 9018720000 |
|                                                                                    | 35                               | 9.5                 | 9018730000 |
| <b>Oval crimp with control mark</b><br>Crimping insert with spring-mounted locator |                                  |                     |            |
| <b>Prerounding die sets Cu/Al for sector cable</b>                                 |                                  |                     |            |
|                                                                                    | 25/50                            | 12                  | 9018450000 |
|                                                                                    | 35/70                            | 12                  | 9018460000 |
|                                                                                    | 95                               | 12                  | 9018470000 |

|                                | Cross-section [mm <sup>2</sup> ] | Order No.  |
|--------------------------------|----------------------------------|------------|
| Die sets for wire end ferrules |                                  |            |
|                                | <b>Pair of dies</b>              |            |
|                                | 70                               | 9023360000 |
|                                | 95                               | 9023370000 |

## Crimping inserts

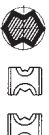
## MTR 160

|                                                                                   | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|-----------------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>DIN 46235</b>        |                                     |                      |                        |            |
|  | 10                                  | 6                    | 7.0                    | 9020900000 |
|                                                                                   | 16                                  | 8                    | 7.0                    | 9020910000 |
|                                                                                   | 25                                  | 10                   | 7.0                    | 9020920000 |
|                                                                                   | 35                                  | 12                   | 7.0                    | 9020930000 |
|                                                                                   | 50                                  | 14                   | 7.0                    | 9020940000 |
|                                                                                   | 70                                  | 16                   | 7.0                    | 9020950000 |
|                                                                                   | 95                                  | 18                   | 7.0                    | 9020960000 |
|                                                                                   | 120                                 | 20                   | 7.0                    | 9020970000 |
|                                                                                   | 150                                 | 22                   | 7.0                    | 9020980000 |
|                                                                                   | 185                                 | 25                   | 7.0                    | 9020990000 |
|                                                                                   | 240                                 | 28                   | 7.0                    | 9021000000 |

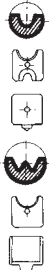
## MTR 300

|                                                                                   | Cross-section<br>[mm <sup>2</sup> ] | Code to<br>DIN 48083 | Crimping width<br>[mm] | Order No.  |
|-----------------------------------------------------------------------------------|-------------------------------------|----------------------|------------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>DIN 46235</b>        |                                     |                      |                        |            |
|  | 10                                  | 6                    | 7.0                    | 9021430000 |
|                                                                                   | 16                                  | 8                    | 7.0                    | 9021440000 |
|                                                                                   | 25                                  | 10                   | 7.0                    | 9021450000 |
|                                                                                   | 35                                  | 12                   | 7.0                    | 9021460000 |
|                                                                                   | 50                                  | 14                   | 7.0                    | 9021470000 |
|                                                                                   | 70                                  | 16                   | 7.0                    | 9021480000 |
|                                                                                   | 95                                  | 18                   | 7.0                    | 9022290000 |
|                                                                                   | 120                                 | 20                   | 7.0                    | 9022300000 |
|                                                                                   | 150                                 | 22                   | 7.0                    | 9022310000 |
|                                                                                   | 185                                 | 25                   | 7.0                    | 9022320000 |
|                                                                                   | 240                                 | 28                   | 7.0                    | 9022330000 |
|                                                                                   | 300                                 | 32                   | 7.0                    | 9022340000 |

|                                                                                   | Cross-section [mm <sup>2</sup> ] | Crimping width [mm] | Order No.  |
|-----------------------------------------------------------------------------------|----------------------------------|---------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>standard types</b>   |                                  |                     |            |
|  | 10/25                            | 9.8                 | 9021750000 |
|                                                                                   | 16/35                            | 9.8                 | 9021760000 |
|                                                                                   | 50                               | 8.0                 | 9021770000 |
|                                                                                   | 70                               | 8.0                 | 9021780000 |
|                                                                                   | 95                               | 8.0                 | 9021790000 |
|                                                                                   | 120                              | 8.0                 | 9021800000 |
|                                                                                   | 150                              | 8.0                 | 9021810000 |
|                                                                                   | 185                              | 8.0                 | 9021820000 |
|                                                                                   | 240                              | 8.0                 | 9021830000 |

|                                                                                   | Cross-section [mm <sup>2</sup> ] | Crimping width [mm] | Order No.  |
|-----------------------------------------------------------------------------------|----------------------------------|---------------------|------------|
| Die sets for <b>copper tube</b> cable lugs and connectors <b>standard types</b>   |                                  |                     |            |
|  | 10/25                            | 9.8                 | 9024010000 |
|                                                                                   | 16/35                            | 9.8                 | 9024400000 |
|                                                                                   | 50                               | 8.0                 | 9024410000 |
|                                                                                   | 70                               | 8.0                 | 9024420000 |
|                                                                                   | 95                               | 8.0                 | 9024430000 |
|                                                                                   | 120                              | 8.0                 | 9025210000 |
|                                                                                   | 150                              | 8.0                 | 9025220000 |
|                                                                                   | 185                              | 8.0                 | 9025230000 |
|                                                                                   | 240                              | 8.0                 | 9028020000 |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Die sets for copper cable lugs and connectors,<br><b>DIN 46234, DIN 46230</b>       |                                  |            |
|  | 10                               | 9021300000 |
|                                                                                     | 16                               | 9021310000 |
|                                                                                     | 25                               | 9021320000 |
|                                                                                     | 35                               | 9021330000 |
|                                                                                     | 50                               | 9021340000 |
|                                                                                     | 70                               | 9021350000 |
|                                                                                     |                                  |            |
|                                                                                     | 95                               | 9021360000 |
|                                                                                     | 120                              | 9021370000 |
|                                                                                     | 150                              | 9021380000 |
| with control mark                                                                   |                                  |            |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Die sets for copper cable lugs and connectors,<br><b>DIN 46234, DIN 46230</b>       |                                  |            |
|  | <b>2-way die</b>                 |            |
|                                                                                     | 16/35                            | 9022360000 |
|                                                                                     | 10/70                            | 9022350000 |
|                                                                                     | 25/50                            | 9022370000 |
|                                                                                     | <b>Stamp</b>                     |            |
|                                                                                     | 10 - 70                          | 9022990000 |
|                                                                                     | <b>Single die</b>                |            |
|                                                                                     | 95                               | 9022380000 |
|                                                                                     | 120                              | 9022390000 |
|                                                                                     | 150                              | 9022400000 |
|  | <b>Stamp</b>                     |            |
|                                                                                     | 95-150                           | 9023110000 |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Die sets for insulated copper cable lugs and connectors,<br><b>DIN 46231, 46237</b> |                                  |            |
|  | 10                               | 9016180000 |
|                                                                                     | 16                               | 9016190000 |
|                                                                                     | 25                               | 9016200000 |
|                                                                                     | 35                               | 9016210000 |
|                                                                                     | 50                               | 9016220000 |
|                                                                                     | 70                               | 9016230000 |
|                                                                                     | 95                               | 9016240000 |
|                                                                                     | 120                              | 9016250000 |
|                                                                                     |                                  |            |

|                                                                                     | Cross-section [mm <sup>2</sup> ] | Order No.  |
|-------------------------------------------------------------------------------------|----------------------------------|------------|
| Prerounding die sets Cu/Al for sector cable                                         |                                  |            |
|  | 25 sm/35 se                      | 9016260000 |
|                                                                                     | 35 sm/50 se                      | 9016270000 |
|                                                                                     | 50 sm/70 se                      | 9016280000 |
|                                                                                     | 70 sm/95 se                      | 9016290000 |
|                                                                                     | 95 sm/120 se                     | 9016370000 |
|                                                                                     | 120 sm/150 se                    | 9016380000 |
|                                                                                     | 150 sm/185 se                    | 9016390000 |
|                                                                                     | 185 sm/240 se                    | 9016440000 |
|                                                                                     | 240 sm                           | 9016500000 |

Insertion tool for twisted-pair cable

For connecting twisted-pair cable to terminal rails with IDC contacts e. g. in main and floor distributors, and in modular wall junction boxes for structured building cabling.

PDT



The punch-down tool has the following features:

- Mechanics made from metal components
- Adjustable pressing force for conductor sizes AWG 20 to AWG 28
- Different blades for connector blocks of type 110 from AT&T, type 66, type LSA Plus from Krone (Standard and scissors cutting function) as well as for telephone outlets 630A6
- Incision blades with 2 functions: incision or incision with cutting off of remaining conductor
- Storage compartment for one blade



- A = PD blade 110
- B = PD blade 66
- C = PD blade 630
- D = PD blade Krone LSA (standard)
- E = PD blade Krone LSA (scissor)

Technical data

|                         |    |
|-------------------------|----|
| Length / Width / Height | mm |
| Weight                  | g  |
| Note                    |    |

| PUNCH DOWN TOOL PDT     |    |               |
|-------------------------|----|---------------|
| Length / Width / Height | mm | 160 / 37 / 29 |
| Weight                  | g  | 142           |
|                         |    |               |

Ordering data

| Version |
|---------|
|         |
| Note    |

| Type                | Qty | Order No.  |
|---------------------|-----|------------|
| PUNCH DOWN TOOL PDT | 1   | 9013970000 |
| (without blade)     |     |            |

Accessories

|      |
|------|
|      |
| Note |

| Type                               | Qty | Order No.  |
|------------------------------------|-----|------------|
| PD blade Krone LSA Plus (scissor)  | 1   | 9014050000 |
| PD blade 110                       | 1   | 9013960000 |
| PD blade 630                       | 1   | 9013990000 |
| PD blade 66                        | 1   | 9013980000 |
| PD blade Krone LSA Plus (standard) | 1   | 9014000000 |
|                                    |     |            |

## Crimp removal tools

### Removal Tool CM3, CM5, HD

#### CM3 Removal Tool

Contact release tool for freeing crimp contacts in the Concept CM3 module

#### CM5 Removal Tool

Contact release tool for freeing crimp contacts in the Concept CM5 module

#### HD Removal Tool

Contact release tool for freeing crimp contacts in the Concept CM10 module

#### Ordering data

| Type              | Qty | Order No.  |
|-------------------|-----|------------|
| Removal Tool CM 3 | 1   | 1866710000 |
| Removal Tool CM 5 | 1   | 1866720000 |
| Removal Tool HD   | 1   | 1866730000 |



### Removal Tool M20

Contact release tool for releasing crimp contacts in ConCept CM20 modules

#### Ordering data

| Type               | Qty | Order No.  |
|--------------------|-----|------------|
| Removal Tool CM 20 | 1   | 1866740000 |



### Removal Tool HE

Contact release tool for ConCept HE modules, and for releasing crimp contacts in ConCept CM4 modules

#### Ordering data

| Type            | Qty | Order No.  |
|-----------------|-----|------------|
| Removal Tool HE | 1   | 1866750000 |



### HDC-DW RSV 1.6

Contact release tool for ConCept modules, or for dismantling stamped HD pin and socket contacts of type CB/CS and GB/GS

#### Ordering data

| Type       | Qty | Order No.  |
|------------|-----|------------|
| DW RSV 1.6 | 1   | 9004530000 |



### DFF-C

Disengaging tool for removing crimp contacts clipped in BLAC enclosures

#### Ordering data

| Type                   | Qty | Order No.  |
|------------------------|-----|------------|
| DFF-C ENTRIEGELUNGSWZ. | 1   | 9014210000 |



### Removal Tool AFK

Contact release tool for removing FEKO ZRV contacts.

#### Ordering data

| Type             | Qty | Order No.  |
|------------------|-----|------------|
| REMOVAL TOOL AFK | 1   | 1866760000 |



**HTX-HDC/POF****POF crimping**

Crimping of fibre optic contacts „polymer optical fibre“ (POF).

- For plug and socket
- Ratchet for precise crimping.
- Unlocks in case of incorrect operation
- Locator for precise contact positioning

**Contacts:**

- Fibre-optic HD-contact socket for ø 1.0mm POF
- Fibre-optic HD-contact pin for ø 1.0mm POF

**Ordering data**

| Type        | Qty | Order No.  |
|-------------|-----|------------|
| HTX-HDC/POF | 1   | 9010950000 |

**Technical data**

|        |        |
|--------|--------|
| Length | 200 mm |
| Weight | 438 g  |

**PB LWL/POF / PS LWL/POF****POF polishing**

For processing the cut surface of fibre-optic cables with polymer optical fibre (POF).

- Buffing disc (PS LWL/POF)
- Buffing sheet (PB LWL/POF)

**Ordering data**

| Type       | Qty | Order No.  |
|------------|-----|------------|
| PS LWL/POF | 1   | 9020390000 |
| PB LWL/POF | 1   | 9020400000 |

**AM LWL/POF****POF stripping**

Stripping fibre-optic cables. Fibre-optic cables with polymer optical fibre (POF).

- Longitudinal stop with scale is built into the tool
- Stripping direction is lengthwise to the fibre
- No damage to the optical fibre

**Ordering data**

| Type       | Qty | Order No.  |
|------------|-----|------------|
| AM LWL/POF | 1   | 9020360000 |

**LWL-stripax**

Stripping and cutting tool for plastic fibre-optic cables with 1-mm diameter inner conductor

- Stripping length adjustable via end stop
- Automatic opening of the clamping jaws after stripping

**Ordering data**

| Type            | Qty | Order No.  |
|-----------------|-----|------------|
| M-D-STRIPAX LWL | 1   | 9003750000 |

**Accessories**

| Type                               | Qty | Order No.  |
|------------------------------------|-----|------------|
| Spare stripping blades LWL-Stripax | 1   | 9003760000 |

**Technical data**

| Max. stripping performance |    |
|----------------------------|----|
| Cable type                 |    |
| Conductor diameter         | -  |
| Stripping length, max.     | -  |
| Tool data                  |    |
| Length                     | mm |
| Weight                     | g  |
| Note                       |    |

| M-D-STRIPAX LWL                                 |   |
|-------------------------------------------------|---|
| POF conductor with an inner conductor of 1 mm Ø |   |
| ...                                             | 1 |
| 7.5                                             |   |
| 135                                             |   |
| 110                                             |   |
| POF: polymer optical fibre                      |   |



Cable tie tools

Cable tie tools

RT 1

WSM tool automatic



For plastic cable ties of 2.5...4.8 mm width and with a thickness of max. 1.6 mm.

- Tensioning and separating of cable ties in one step
- The tensioning force can be adjusted over a wide range to cover small to standard cable ties.
- For cable bundles of 1.6 mm to 100 mm diameter

For steel cable ties with a width of 4.6 mm

- Tensioning and automatic separation of leftover cable tie in one step
- For steel cable ties, e.g., Weidsteel from Weidmüller



Technical data

|        |    |
|--------|----|
|        |    |
| Length | mm |
| Weight | g  |
| Note   |    |

|                     |  |     |
|---------------------|--|-----|
| CABLE TIE TOOL RT-1 |  |     |
|                     |  | 160 |
|                     |  | 260 |
|                     |  |     |

|                    |  |     |
|--------------------|--|-----|
| WSM TOOL AUTOMATIC |  |     |
|                    |  | 275 |
|                    |  | 579 |
|                    |  |     |

Ordering data

|         |  |
|---------|--|
| Version |  |
|         |  |
| Note    |  |

|                                                                                   |     |            |
|-----------------------------------------------------------------------------------|-----|------------|
| Type                                                                              | Qty | Order No.  |
| CABLE TIE TOOL RT-1                                                               | 1   | 1296000000 |
| For detailed information, refer to cable ties in the „Marking Systems“ catalogue. |     |            |

|                    |     |            |
|--------------------|-----|------------|
| Type               | Qty | Order No.  |
| WSM TOOL AUTOMATIK | 1   | 1774470000 |
|                    |     |            |

Cable tie tools

WSM tool manual



For steel cable ties with a width of 4.6 mm

- For tensioning steel cable ties. The surplus end is then broken off by twisting it 90°.



Technical data

|        |    |
|--------|----|
|        |    |
| Length | mm |
| Weight | g  |
| Note   |    |

|                 |     |  |
|-----------------|-----|--|
| WSM TOOL MANUAL |     |  |
|                 | 220 |  |
|                 | 633 |  |
|                 |     |  |

Ordering data

|         |  |
|---------|--|
| Version |  |
|         |  |
| Note    |  |

|                  |     |            |
|------------------|-----|------------|
| Type             | Qty | Order No.  |
| WSM TOOL MANUELL | 1   | 1774480000 |
|                  |     |            |

