

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.

D

Crimping describes the production of a uniform, non-detachable 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.

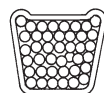
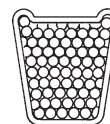
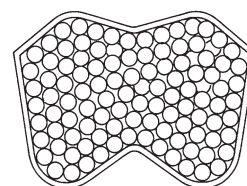


Crimping of wire end ferrules

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.

Front view:

0.5 mm²0.75 mm²1.0 mm²1.5 mm²2.5 mm²4.0 mm²

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.

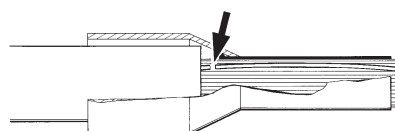
It is possible that the standard requirements for the crimped product can't be achieved, although taken on their own, both conductor and crimping material comply with the corresponding standard. The individual production tolerances of conduc-

tor and crimping material do not allow every conductor to be combined with every contact.

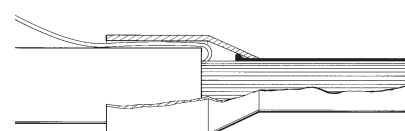
The combination of conductors, crimping material and crimping tool must be coordinated: this procedure is all the more difficult given the large number of products on the market.

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

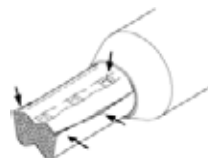


Faults which can occur during crimping:

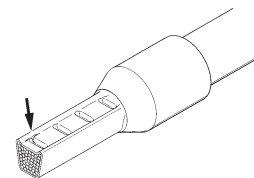
- Cracks along the sides and die impressions
- Splitting of the ferrules
- Asymmetrical crimping shape
- Extreme burrs formed along the sides
- Ferrule not filled by the conductor
- Single conductors pushed back protruding from the collar
- Single conductors squeezed off
- Plastic collar damaged by the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

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)



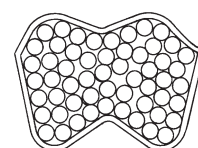
Formation of cracks at the sides. Sides split open



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

Crimping and cutting tool for wire end ferrules

Crimping and cutting tool for wire end ferrules

- Cutting
- Stripping
- Crimping
- Conductor entry sideways
- Wire end ferrules according to DIN 46228-4
- Ratchet for precise crimping
- Efficient operation:
Change of tools not necessary, therefore significant saving of time
- automatic transport of wire end ferrules
- Only wire end ferrules in strips of 50 pieces may be used with this tool. The use of wire end ferrules on reels can lead to damage.

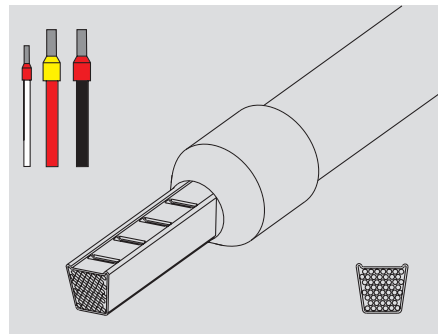
stripax® plus 2.5

Cutting, stripping and crimping tool for wire end ferrules



Cutting, stripping and crimping tool for linked wire end ferrules on strip with 0.5...2.5 mm² (~AWG 20...14) from Weidmüller

- Easy handling of wire end ferrules
- Automatic feeding of wire end ferrules



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

stripax® plus 2,5	
Strip of wire end ferrules	
0.5 ... 2.5	
0.5 ... 0.75	
1 ... 1.5	
2.5	

Tool data	
Length	mm
Weight	g

210
260

Information	
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Only Weidmüller wire end ferrules on strips à 50 pieces may be used.
The usage of wire end ferrules supplied by the metre may cause failures.

Ordering data

Version

Type	Qty.	Order No.
stripax plus 2,5	1	9020000000

Information

Spare cutter(order no.: 9050340000)

Accessories

Information

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for wire end ferrules

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

PZ 1.5

Crimping tool for wire end ferrules from 0.25...1.5 mm²



Crimping tool for wire end ferrules of 0.25...1.5 mm² with and without plastic collar to DIN 46228 pt. 1 and 4 (~ AWG 24...16 and twin-wire end ferrules of 0.5...1.0 mm²)

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

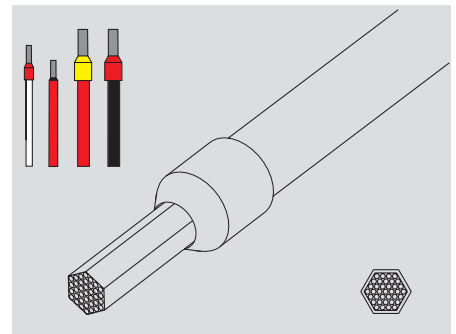
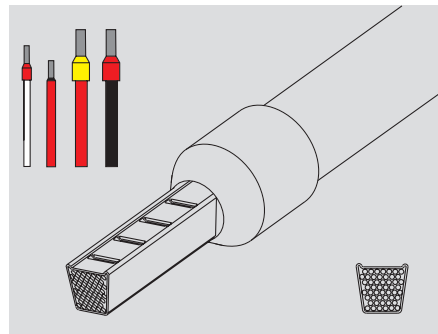
PZ 6 HEX

Crimping tool for wire end ferrules from 0.25...6 mm²



Crimping tool for wire end ferrules of 0.14...6 mm² with and without plastic collar to DIN 46 228 part 1 and 4 (~AWG 24...10) and twin wire end ferrules of 0.5...4.0mm²

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



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

PZ 1.5	
Wire end ferrules with/without plastic collar	
Crimping range	0.25 ... 1.5
Crimping range 1 (with multiple crimping positions)	
Crimping range 2 (with multiple crimping positions)	
Crimping range 3 (with multiple crimping positions)	
Plug width	

PZ 6 HEX	
Wire end ferrules with/without plastic collar	
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)	
Plug width	

Tool data	
Length	mm
Weight	g

Length	170
Weight	170

Length	180
Weight	380

Information	
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Information	
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Information	
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Ordering data

Version

Type	Qty.	Order No.
PZ 1.5	1	9005990000

Type	Qty.	Order No.
PZ 6 HEX	1	9013650000

Information

Information

Information

Accessories

Information

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for wire end ferrules

Crimping tools for wire end ferrules

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- Entry for wire end ferrule on the side

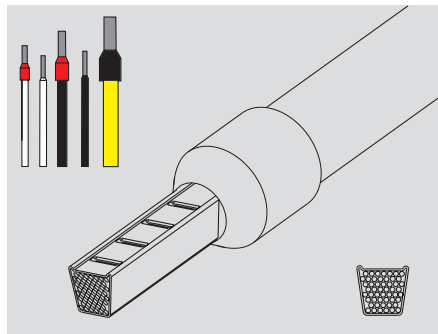
PZ 4

Crimping tool for wire end ferrules from 0.5...4 mm²



Crimping tool for wire end ferrules (to DIN 46228 part 1 and 4) with and without plastic collar and twin wire end ferrules of 0.5...2.5 mm²

- Only one crimping station for the whole cross-section



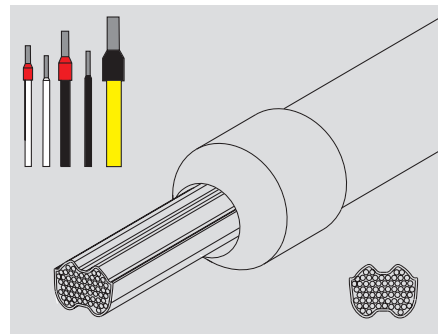
PZ 6/5

Crimping tool for wire end ferrules from 0.25...6 mm²



Crimping tool for wire end ferrules (to DIN 46228 pt. 1 and 4) with and without plastic collar of 0.25...6 mm² (~ AWG 24...10) and twin wire end ferrules of 0.5...4.0 mm²

- Crimp according to Euro-Norm EN 60947-1
- Five crimping stations corresponding to the conductor cross-section
- Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Crimping range 4 (with multiple crimping positions)	mm ²
Crimping range 5 (with multiple crimping positions)	mm ²

Tool data	
Length	mm
Weight	g

Information	
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PZ 4	
Wire end ferrules with/without plastic collar	
Crimping range	0.5 ... 4

Length	200
Weight	448

Information	
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PZ 6/5	
Wire end ferrules with/without plastic collar	
Crimping range	0.25 ... 6
Crimping range 1 (with multiple crimping positions)	0.25 ... 0.5
Crimping range 2 (with multiple crimping positions)	0.75 ... 1.5
Crimping range 3 (with multiple crimping positions)	2.5
Crimping range 4 (with multiple crimping positions)	4
Crimping range 5 (with multiple crimping positions)	6

Length	200
Weight	423

Information	
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Ordering data

Version

Type	Qty.	Order No.
PZ 4	1	9012500000

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

Information

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Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for wire end ferrules

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

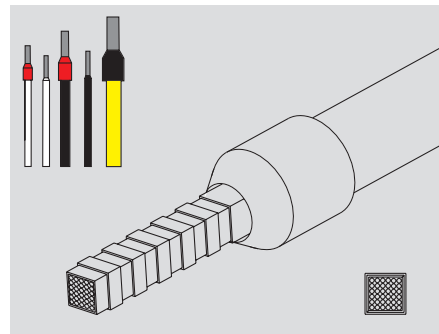
PZ 3

Crimping tool for wire end ferrules from 0.5...6 mm²



Crimping tool for wire end ferrules of 0.5...6 mm² with and without plastic collar according to DIN 46228 part 1 and 4 (~ AWG 20...10) and twin-wire end ferrules of 0.5...4 mm²

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



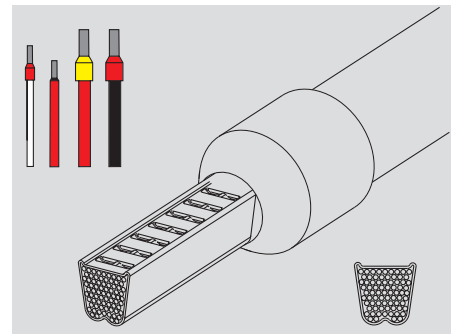
PZ 6 roto

Crimping tool for wire end ferrules from 0.14...6 mm²



Crimping tool for wire end ferrules of 0.14...6 mm² with and without plastic collar to DIN 46228 part 1 and 4 (~ AWG 26...10) and twin-wire end ferrules of 0.5...4 mm²

- Only one die for the whole cross-section
- Pivoted die for wire end ferrule-insertion
- Wire end ferrule insertion from the front or from the side



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

Tool data	
Length	mm
Weight	g

Information

PZ 3	
Wire end ferrules with/without plastic collar	
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)	
Plug width	

Length	200
Weight	426

Information

PZ 6 roto	
Wire end ferrules with/without plastic collar	
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)	
Plug width	

Length	200
Weight	428

Information

Ordering data

Version

Type	Qty.	Order No.
PZ 3	1	0567300000

Type	Qty.	Order No.
PZ 6 roto	1	9014350000

Information

Accessories

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Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for wire end ferrules

Crimping tools for wire end ferrules

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- Entry for wire end ferrule on the side

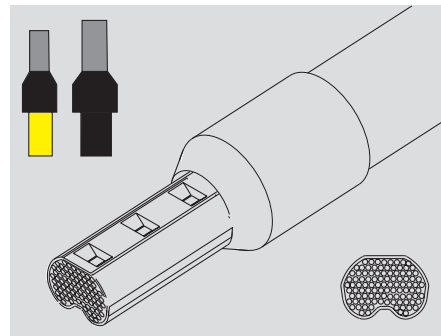
PZ 16

Crimping tool for wire end ferrules from 6...16 mm²



Crimping tool for wire end ferrules (to DIN 46228 part 1 and 4) with and without plastic collar from 6...16 mm² (~ AWG 10...6)

- Three crimping stations corresponding to the conductor cross-sections
- Crimp according to Euro-Norm EN 60947-1
- Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)



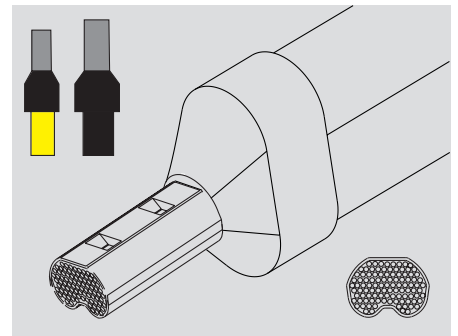
PZ ZH 16

Crimping tool for twin wire end ferrules, 6...16 mm²



Crimping tool for twin wire end ferrules (to DIN 46228 pt.4) with plastic collar from 6...16 mm² (~AWG 10...6)

- Three crimping stations corresponding to the conductor cross-sections



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

PZ 16	
Wire end ferrules with/without plastic collar	
6 ... 16	
6	
10	
16	

PZ ZH 16	
Twin wire end ferrules	
6 ... 16	
6	
10	
16	

Tool data	
Length	mm
Weight	g

200	
418	

260	
700	

Information	
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Information	
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Information	
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Ordering data

Version

Type	Qty.	Order No.
PZ 16	1	9012600000

Type	Qty.	Order No.
PZ ZH 16	1	9013600000

Information

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Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for wire end ferrules

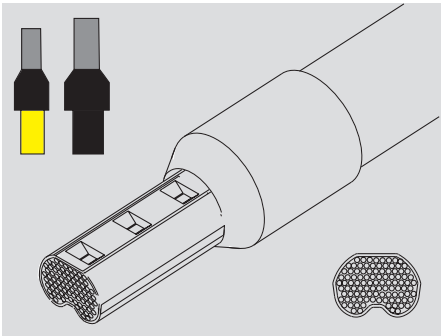
- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

PZ 50

Crimping tool for wire end ferrules with 25, 35 and 50 mm²



- Crimping tool for wire end ferrules of 25, 35 and 50 mm² with and without plastic collar to DIN 46228 part 1 and 4(= AWG 3...1)
- Three crimping stations corresponding to the conductor cross-sections
 - Crimp according to Euro-Norm EN 60947-1
 - Approval according to VG 95211 (military designation VG 95 236 T 14 B 002)



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
Plug width	mm

Tool data	
Length	mm
Weight	g

Information	
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PZ 50	
Wire end ferrules with/without plastic collar	
25 ... 50	
25	
35	
50	

Ordering data

Version

Type	Qty.	Order No.
PZ 50	1	9006450000

Information

Accessories

Information

Information and ordering data for wire end ferrules - see chapter J accessories wire end ferrules

Crimping tools for other contacts

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- With locator for exact positioning of the contacts.

HTF 28 – HTF 48 – HTF 63

Crimping tool for flat blade connectors and receptacles



Crimping tool for flat blade connectors and flat blade receptacles with open or pre-rolled crimping claw

HTF 28

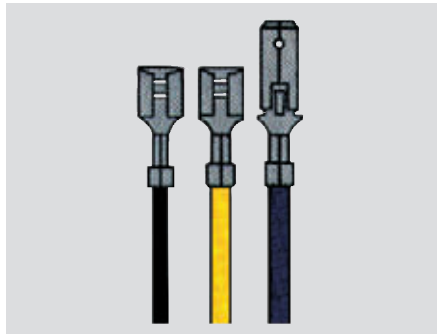
Connector width 2.8 mm, from 0.1 ... 1.0 mm²

HTF 48

Connector width 4.8 mm, from 0.5 ... 2.5 mm²

HTF 63

Connector width 6.3 mm, from 0.5 ... 2.5 mm²



HTF ZRV – HTF DFF

Crimping tool for Weidmüller DFF- and ZRV-contacts



HTF DFF

Crimping tool for contacts of the Weidmüller DFF series within the cross-section range of 0.22...2.5 mm² (~AWG 24...12)

HTF ZRV

Crimping tool for Weidmüller's ZRV contact system. MKF flat contacts of Grote & Hartmann and contacts constructed in the same way of 0.2...0.35 mm² and 0.5...1.0 mm²



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

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
0.5 ... 1		
2.8	4.8	6.3

HTF DFF	HTF ZRV
Weidmüller DFF	Weidmüller ZRV
0.22 ... 2.5	0.2 ... 1
0.22 ... 0.35	0.2 ... 0.35
0.5 ... 1	0.5 ... 1
1.5 ... 2.5	

Tool data	
Length	mm
Weight	g
Information	

200	200	200
438	438	438

205	200
445	436

Ordering data

Version
Information

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

Type	Qty.	Order No.
HTF DFF	1	9014140000
HTF ZRV	1	9014840000

Accessories

Information

Information

Information

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- With locator for exact positioning of the contacts

HTF RSV 16 – HTF RSV 12

Crimping tool for contacts of the Weidmüller-RSV and DSTV-HD-Systems



HTF RSV 16
AWG 26...16 (~ 0.14...1.5 mm²)

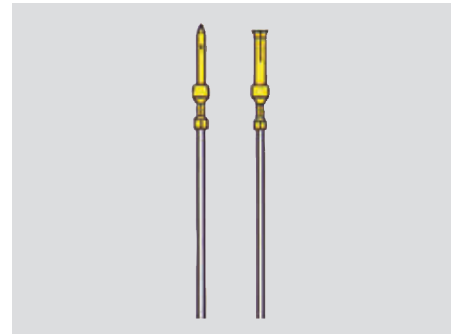
HTF RSV 12
AWG 14...12 (~ 2.5 mm²)

HTF SUB-D

Crimping tool for SUB-D contacts



HTF SUB-D
Crimping tool for Sub-D contacts with open crimping claw AWG 28....20



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)	AWG

Tool data	
Length	mm
Weight	g

Information

HTF RSV 12	HTF RSV 16
RSV and DSTV-HD	RSV and DSTV-HD
14 ... 12	26 ... 16
14	26 ... 24
12	22 ... 20
	20 ... 20
	18 ... 16

205	205
445	445

Information

HTF SUB-D
SUB-D
28 ... 20
28 ... 24
22 ... 20

200
438

Information

Ordering data

Version

Type	Qty.	Qty.
HTF RSV 12	1	9013550000
HTF RSV 16	1	9013560000

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Type	Qty.	Qty.
HTF SUB-D	1	9013260000

Information

Accessories

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Crimping tools for other contacts

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation,
- With locator for exact positioning of the contacts

CTX CM 1.6/2.5 + CTX CM 3.6

Crimping tool for rolled contacts

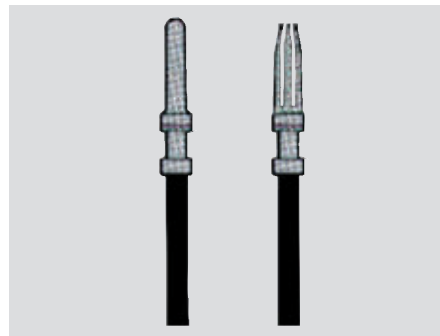


CTX CM 1.6/2.5 of 0.14...4.0 mm²

- Turned HD-contacts
- Turned HE-contacts
- ConCept M 10- and M 5 contacts

CTX CM 3.6 of 4.0...10 mm²

- Turned HD-contacts
- ConCept M 3-contacts and similar



CZB1 + HDC-CM-3

Crimping tool for rolled contacts

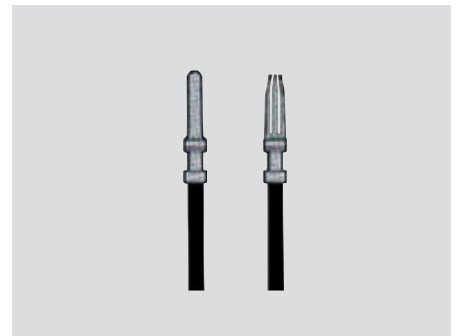


CZB1

- Crimping tool for male and female contacts of the HE-series in the cross-sec.-range of 0.5...4.0 mm²
- 4-Indent-Crimp

HDC-CM-3

- Crimping tools for male and female contacts of the HE-series in the cross-sec.-range of 1.5...10.0 mm²
- 4-Indent-Crimp



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)	mm²
Crimping range 5 (with multiple crimping positions)	mm²

Tool data	
Length	mm
Weight	g

Information	
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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	

260	260
730	730

Information	
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CZB1	HDC-CM-3
HE contacts	HE contacts
0.5 ... 4	1.5 ... 10

165	165
230	230

Information	
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Ordering data

Version

Type	Qty.	Order No.
CTX CM 1.6/2.5	1	9018490000
CTX CM 3.6	1	9018480000

Type	Qty.	Order No.
CZB1	1	9012710000
HDC-CM-3	1	1700890000

Information

Information

Information

Accessories

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Information

Information

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

HTG 58 – HTG 59 – HTG 58/59

Crimping tool for coaxial connectors



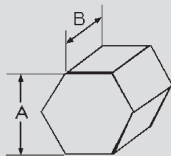
Crimping tool for coaxial connectors like BNC- and TNC-plugs with cable RG 58, RG 59, RG 62 and RG 71
RG 62 and RG 71 can only be processed in dies for RG 59

HTX LWL

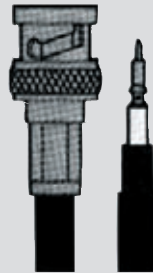
Crimping tool for fibre optic connectors



Crimping tool for fibre optic connectors with a core-diameter of 1mm, crimping sleeve 5.5mm Ø
station 1
hexagon crimping
station 2
round crimping (for HP-connector)



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	mm
C	mm
D	mm

HTG 58	HTG 58/59	HTG 59
coaxial connector	coaxial connector	coaxial connector
5.40 / 10	5.40 / 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 mm	7.5
2	2	2

HTX LWL
Fibre-optic connector
3.15 / 6.0 H-ø 3.9
4.85 / 6.0 H-ø 5.5

Tool data	
Length	mm
Weight	g
Information	

200	200	200
420	420	420

200
415
H-ø: Sleeve diameter

Ordering data

Version
Information

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

Type	Qty.	Order No.
HTX LWL	1	9011360000

Accessories

Note

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Crimping tools for other contacts

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

HTG 174 – HTX 138 – HTX 188

Crimping tool for coaxial connectors



Crimping tool for coaxial connectors like BNC- and TNC- and N-plugs with coaxial cable

HTX 138

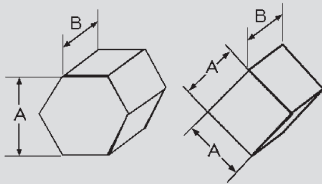
for connectors on coaxial cable

CTX 500/501/502

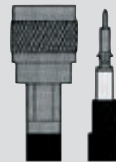
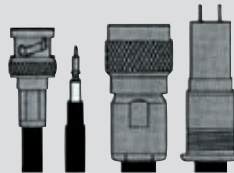
Crimping tool for coaxial connectors



Crimping tool for coaxial connectors like BNC- and TNC- and N-plugs with coaxial cable



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	mm
C	mm
D	mm

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

CTX 500	CTX 501	CTX 502
coaxial connector	coaxial connector	coaxial connector
10.54 / 12	10.90 / 12	9.30 / 12
2.54 / 3.17	2.45 / 3.17	1.75 / 2.3
12.2	12.6	10.7
2.9	2.8	2

Tool data	
Length	mm
Weight	g
Information	

200	200	200
420	420	420
Information		

260	260	260
730	730	730
Information		

Ordering data

Version
Information

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

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

Accessories

Note

Note

Note

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- With locator for exact positioning of the contacts
- approved to DIN EN 60352 pt.2

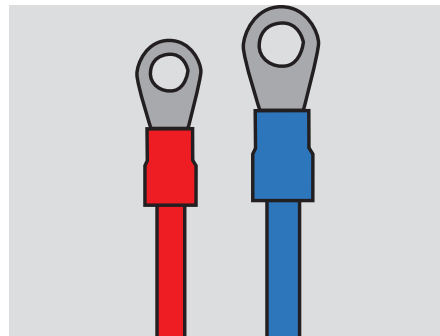
HTI 15

Crimping tools for insulated connectors,
0.5...2.5 mm²



Crimping tool for PVC, PC- and polyamide-insulated connectors within cross-section range of 0.5...2.5 mm² (AWG 20 ... AWG 14)

- For cable lug
- For pin cable lug
- For parallel- and serial connectors
- For plug connectors
- For flat blade receptacles and flat blade connectors with size 2.8; 4.8 and 6.3



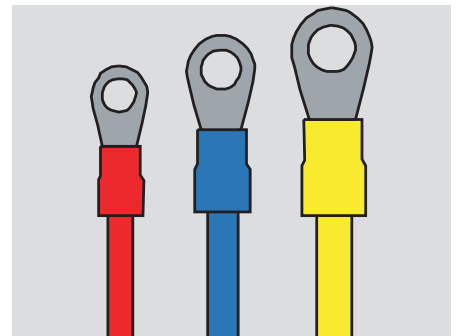
CTI 6 / CTI 6S

Crimping tools for insulated connectors,
0.5...6 mm²



Crimping tools for PVC, PC- and polyamide-insulated connectors within cross-section range 0.5...6 mm² (~AWG 20 ... AWG 10)

- For cable lug
- For pin cable lug
- For parallel- and serial connectors
- For plug connectors
- For flat blade receptacles and flat blade connectors with size 2.8; 4.8; 6.3 and 9.5



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

HTI 15
insulated connector
0.5 ... 2.5
0.5 ... 1.5
1.1 ... 2.5

CTI 6	CTI 6S
insulated connector	insulated connector
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	mm
Weight	g

200
434

260	240
686	678

Information

Information

CTI 6S with standard handles / CTI 6 with long handles	
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Ordering data

Version

Type	Qty.	Order No.
HTI 15	1	9014400000

Type	Qty.	Order No.
CTI 6	1	9006120000
CTI 6S	1	9006210000

Information

Information

CTI 6 with long handle		
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Accessories

Information

Information

Information

Crimping tools for other contacts

Crimping tools for other contacts

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation

HTN 21

Crimping tool for non-insulated connectors, 0.5...6 mm²



Crimping tool for non-insulated cable lugs and connectors within cross section range of 0.5...6 mm² (for cable lugs to DIN 46234) as well as

- Rolled cable lugs
- Tube cable lugs
- Pin cable lugs
- Parallel and serial connection
- Alternatively with or without pivotable locator available



CTN 25 D4 / CTN 25 D5

Crimping tool for non-insulated connectors, 10...25 mm²



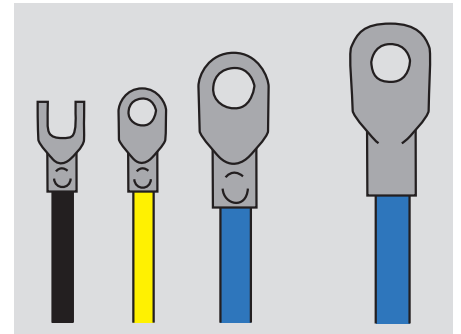
Crimping tool for non-insulated cable lugs and connectors within cross-section range of 10...25 mm²

CTN 25 D 4

- Rolled cable lugs to DIN 46234
- Pin cable lugs
- Parallel- and serial connection

CTN 25 D 5

- Tube cable lugs and conductors DIN 46235



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm

HTN 21	HTN 21 w. locator
Uninsulated conn.	Uninsulated conn.
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

CTN 25D4	CTN 25 D5
Uninsulated conn.	Uninsulated conn.
10 ... 25	10 ... 25
10	10
16	16
25	25

Tool data	
Length	mm
Weight	g
Information	

200	200
427	427
Locator for secure contact positioning in tool	

260	260
685	685

Ordering data

Version

Type	Qty.	Order No.
HTN 21	1	9014610000
HTN 21 w. locator	1	9014100000

Type	Qty.	Order No.
CTN 25D4	1	9006220000
CTN 25 D5	1	9006230000

Information

For rolled cable lugs

Accessories

Information

Information

Crimping tools for connectors

Fast feed helps pre-centering and extraction of the connecting parts

- Precision engineering means high pressing force with little physical effort
- Mechanical functions lead to safe and manageable work at different environmental conditions
- Ratchet for proper crimping
- Release mechanism in case of incorrect operation
- Locked hand lever guards against danger of injuring while transporting
- The set of crimp inserts is large and conforming to standards

Customised crimp inserts available on request.

MTR 35 – MTR 110

Crimping tool for tube cable lugs, rolled CU, AL connectors and wire end ferrules



Crimping tools for connectors such as

- Tube-type cable lugs of 6...120 mm²
- Rolled CU-connectors of 6...70 mm²
- Wire end ferrules from 25...95 mm²
- Retractable head for easy withdrawal of crimped connection

MTR 160 – MTR 300

Crimping tool for tube cable lugs, rolled CU, AL connectors and wire end ferrules



Crimping tools for connectors such as

- Tube-type cable lugs of 10...300 mm²
- Rolled CU-connectors of 10...150 mm²
- Retractable head for easy withdrawal of crimped connection (only MTR 300)

Technical data

Description of contact		MTR 110	MTR 35	MTR 160	MTR 300
Pressure force	kN	55	25	100	100
Crimping range copper connector (rolled)	mm ²	6 ... 70	6 ... 35	10 ... 150	10 ... 150
Crimping range copper tube connector	mm ²	10 ... 120	6 ... 50	10 ... 240	10 ... 300
Crimping Range insulated connectors	mm ²	10 ... 35	10 ... 25		10 ... 120
Crimping range wire end ferrule	mm ²	70 ... 95	25 ... 50		
Deviation	mm	10	8	16	16
Turntable presses					25 sm...240 sm; 35 se...240 se
Tool data					
Length	mm	420	270	540	540
Weight	kg	2	1.3	4	4

Information

For more details see crimp inserts on the following pages

For more details see crimp inserts on the following pages
sm: sector conductor stranded; se: sector single conductor

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	MTR 110	1	9018020000	MTR 160	1	9017250000
	MTR 35	1	9017500000	MTR 300	1	9021390000
Information						

Accessories

Type	Order No.	Qty.	Type	Order No.	Qty.
Carry Case MTR 110	1	9018040000	Carry Case MTR 300	1	9021420000
Carry Case MTR 35	1	9017840000	Carry Case MTR 160	1	9017270000
Information			Crimping inserts see on the following pages		

Crimping inserts

MTR 35

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	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 [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for aluminium tube cable lugs and connectors DIN 46329				
	25	12	7.0	9017600000
	35	14	7.0	9017610000
				

	Cross-section [mm ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard types			
	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 ²]	Order No.
Stamp and dies for copper cable lugs and connectors, DIN 46234, DIN 46230		
	Stamp	
	6-35	9017670000
	Die	
	6	9017680000
	10	9017690000
	16	9017700000
	25	9017710000
	35	9017720000
	with control mark	

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

	Cross-section [mm ²]	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 [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	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 [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for aluminium tube cable lugs and connectors DIN 46329				
	16/35	10/14	7.0	9018800000
	25/50	12/16	7.0	9018810000
	70	18	7.0	9018820000

	Cross-section [mm ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard types			
	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 ²]	Order No.
Stamp and dies for copper cable lugs and connectors, DIN 46234, DIN 46230		
	Stamp	
	6-70	9018500000
	4-way die	
	10/16/25/35	9018600000
	16/25/35/50	9018610000
	2-way die	
	6/50	9018620000
	10/70	9018630000
	Single die	
	70	9018640000
	with control mark	

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

	Cross-section [mm ²]	Order No.
Die sets for wire end ferrules		
	Pair of dies	
	70	9023360000
	95	9023370000

MTR 160

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	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 [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	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 ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for aluminium tube cable lugs and connectors, DIN 46329				
	300	34	7.0	9918190000

	Cross-section [mm ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard types			
	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 ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard types			
	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 ²]	Order No.
Die sets for copper cable lugs and connectors, DIN 46234, DIN 46230		
	10	9021300000
	16	9021310000
	25	9021320000
	35	9021330000
	50	9021340000
	70	9021350000
	95	9021360000
	120	9021370000
	150	9021380000
with control mark		

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

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

	Prerounding die sets Cu/Al for sector cable	Order No.
	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

Crimping tools

Crimping tools

- Crimping tool for modular plug connector systems WE and DEC with additional features
- Three functions in only one tool
- Ratchet guarantees precise crimping.
- Release mechanism in case of incorrect operation

TT 864 RS WE

Crimping tool for modular plug connectors system WE and DEC



Stripping and cutting of up to 8-pole flat or flat-oval data cables

- Conductor cross-section AWG 28...24
- Attaching of:
 - 4-pole WE-plugs
 - 6-pole (RJ 11) WE-plugs
 - 6-pole (DEC) WE-plugs
 - 8-pole (RJ 45) WE-plugs
- For AMP plugs or versions that are constructed in the same way
- Other versions on request

TT 1064 RS WE

Crimping tool for modular plug connectors system WE and DEC



Stripping and cutting of up to 10-pole flat or flat-oval data cables

- Conductor cross-section AWG 28...24
- Attaching of:
 - 4-pole WE-plugs
 - 6-pole (RJ 11) WE-plugs
 - 6-pole (DEC) WE-plugs
 - 10-pole (RJ 45) WE-plugs
- For AMP plugs or versions that are constructed in the same way
- Other versions on request

Technical data

Description of contact		TT 864 RS WE	TT 1064 RS WE
Type of contact		modular plug connectors	modular plug connectors
Number of Poles		4, 6 and 8	10, 6 and 4
Tool data			
Length	mm	205	205
Weight	g	525	531
Information			

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	TT 864 RS WE	1	9008120000	TT 1064 RS WE	1	9008190000
Information						

Accessories

Information	Spare cutter (No.: 9008130000)	Spare cutter (No.: 9008130000)

Crimping tools

- Crimping tool for modular plug connector systems WE and DEC with additional features
- Three functions in only one tool
- Ratchet guarantees precise crimping.
- Release mechanism in case of incorrect operation

TT 8 GH

Crimping tool for modular plug connections



Crimping tool for shielded modular plug connectors (Hirose) Western Electric (WE)

- Ratchet for precise crimping
- Release mechanism in case of incorrect operation
- Conductor diameter AWG 28...AWG 24 (standard)
- 8-pole (RJ 45) shielded plug (Hirose) for shielded data cables

3 functions:

- Pressing of plug connectors
- Pressing of shielded enclosures
- Crimping of shielded cable

Technical data

Description of contact		TT 8 GH
Type of contact		shielded modular plug connectors
Number of Poles		8
Tool data		
Length	mm	260
Weight	g	750
Information		

Ordering data

Version	Type	Qty.	Order No.
	TT 8 GH	1	9005640000
Information			

Accessories

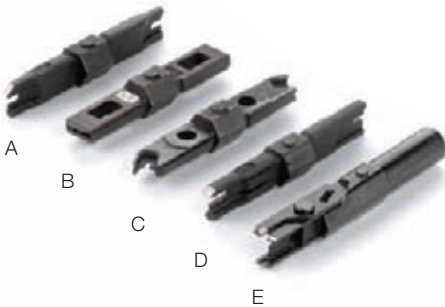
Information	

Insertion tool for twisted-pair cables

Insertion tool
for twisted-pair cables

For connecting twisted-pair cables to terminal strips with IDC and clamped contacts, e.g. in main or floor distribution boxes and modular terminal boxes in properly structured building wiring.

Punch Down Tool – PDT



The Punch Down Tool offers the following features:

- Mechanism made from metal parts
- Adjustable pressing power for conductor sizes AWG 20 to AWG 28
- Different punch down blades for terminal blocks
 - type 110 by AT&T
 - type 66
 - type LSA Plus by Krone (standard and scissors cutting function) and for telephone sockets 630A6
- Clip-in blade with 2 functions:
 - punching down or
 - punching down and cutting off the protruding conductor
- Storage space for 1 blade

Technical data

Punch Down Tool		
Length x width x height	mm	160 x 37 x 29
Weight	g	142
Punch down blade		
Length	mm	approx. 60
Weight	g	16

Ordering data

Type	Qty	Order No.
Punch Down Tool (without blade)	1	9013970000

Accessories

Type	Fig.	Qty	Order No.
PD cutter 110	A	1	9013960000
PD cutter 66	B	1	9013980000
PD cutter 630	C	1	9013990000
PD cutter Krone LSA Plus (standard)	D	1	9014000000
PD cutter Krone LSA Plus (scissors)	E	1	9014050000

CZ 22 E

Crimping tool



Crimping tool for processing of the contacts C1 E/K and C1 E/L (MS system)

- 2 crimp profiles in one die for conductor cross-sections:
 1. Crimp profile AWG 26-22
 2. Crimp profile 0.5-1.5 mm² and AWG 18/19

Technical specification

Length	230 mm
Weight	570 g

Ordering data

Type	Qty.	Order No.
CZ 22 E	1	0560400000

HDC-CM 20

Crimping tool



Crimping tool for cross-section 1.0 mm D-sub-contacts with 0.08 ... 0.52 mm² conductor cross-section of the ConCept module CM-20

Technical specification

Length	230 mm
Weight	650 g

Ordering data

Type	Qty.	Order No.
HDC CM 20	1	1700900000

Contact removal tool



Contact removal tool for disengaging crimp contacts in ConConcept CM4 module

Technical specification

[illegible]

Ordering data

Type	Qty.	Order No.
Removal Tool HE	1	1866750000

HDC-DW RSV 1.6

Contact removal tool



Contact removal tool for ConCept modules or GB/GS- and CB/CS-contacts

DW RSV 1.6

Tool is used to disassembly punched male and female HD-contacts CB/CS and GB/GS

DFF-C

Disengaging tool



Disengaging tool for removing crimp contacts
clipped in BLAC housing

Technical specification

[illegible]

Ordering data

[illegible]

Technical specification

[illegible]

Ordering data

[illegible]

RT 1

Cable tie tool



The RT 1 is a compact, pistol-shaped tool for fastening and cutting cable-ties in one operation. The tension is widely adjustable, ranging from short to standard cable-ties. The RT 1 is designed for bundles with a diameter of 1.6 mm to 100 m.

WSM TOOL automatic

Cable tie tool



WSM-Tool automatic

WSM-Tool automatic
The WSM-Tool automatic is used for tightening steel cable ties and automatically cutting off the excess length of tie in one operation.

WSM TOOL manual

Cable tie tool



WSM-Tool manual

The WSM-Tool manual is used for tightening the steel cable ties only; afterwards, the overhanging end of the tie is removed by twisting it through 90°.

Technical specification

Length	170 mm
Weight	260 g

Technical specification

Length	275 mm
Weight	579 g

Technical specification

Length	220 mm
Weight	633 g

Ordering data

Type	Qty.	Order No.
BT 1	1	1296000000

Ordering data

Type	Qty.	Order No.
WSM Tool automatic	1	1774470000

Ordering data

Type	Qty.	Order No.
WSM Tool manual	1	1774480000

For detailed information on cable ties please see our Marking Systems catalogue

