

## Pliers collection *Colección de alicates* Coleção de alicates

### HIGHTECH 3C

#### The industrial pliers line

made of special steel, forged and oil hardened, with inductive hardened cutting edges, with free of glare and reflexion titanium finish. Maximum grip and ergonomics grace to "soft-grip" handles of the latest **3-component** technology, with impact protection.

#### La línea de alicates industriales

fabricados en acero especial, forjado, templado al aceite, con cortes de precisión endurecidos por inducción y con acabado titanium antirreflejo.

Máximo agarre y ergonomía gracias a mangos "soft-grip" de última tecnología de **3 componentes**, con protección contra impactos.

#### A linha de alicates industriais

feitos em aço especial, forjados e endurecidos, com cortes de precisão endurecidos por indução, com acabamento em titânio sem reflexo. Máxima aderência e ergonomia, graças ao punhos "soft-grip" lida com a mais recente tecnologia **3-componente**, com proteção contra impacto.



3C-SoftGrip



TitaniumFinish



TouchGrip

### ERGOKRAFT

#### Ergonomic 2 components grip

for maximal grip comfort and optimal power transmission, made of chrome-vanadium steel, chromed, mirror polished.

#### Mango bimaterial ergonómico

para una utilización más confortable y fuerza óptima, en acero cromo-vanadio, cromado, pulido brillante.

#### Punhos ergonómicos de 2 componentes

para máximo conforto e poder de transmissão brilhante, em aço cromo-vanadium, cromado, polida.

**Combination pliers**  
**Alicate universal**  
**Alicate universal**

Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4271-165	10	4.0	2.0	165
4271-180	12	5.2	2.2	180
4271-205	13	5.9	2.5	205

**Ergonomic combination pliers 45° - heavy duty**

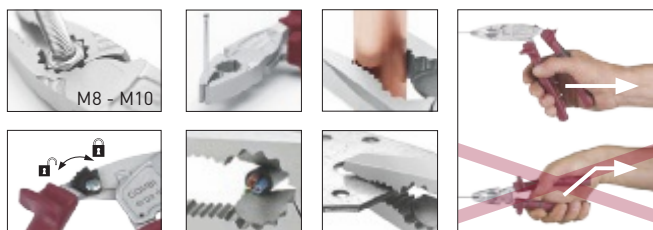
- With 45° angle head for muscle and tendon gentle working grace to the straight posture of the hand at gripping, turning and pulling.
- Higher torque by the leverage effect of the angle.

**Alicate universal ergonómico 45° - para industria**

- Con cabeza angular 45°, respeta los músculos y tendones gracias a la postura recta de la mano al agarrar, girar y tirar.
- Mayor fuerza por el efecto del ángulo.

**Alicate universal ergonómica 45° - trabalho pesado**

- Com cabeça angular de 45° para um trabalho ergonómico graças a posição direita da mão quando apertada, vira e puxa.
- Elevado torque devido ao efeito de alavanca.

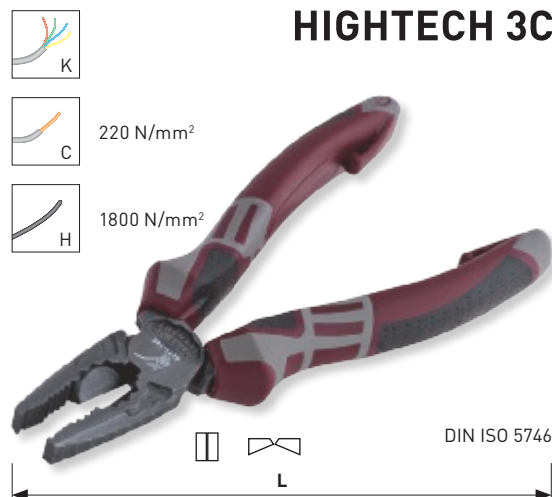


Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4201-200P	13	2.5	5.9	200

**Combination pliers**  
**Alicate universal**  
**Alicate universal**

Art.	L mm
3281-160	160
3281-180	180
3281-200	200

**HIGHTECH 3C**



**HIGHTECH**



**ERGOKRAFT**



**Side cutting nippers**  
*Alicate de corte diagonal*  
*Alicate de corte diagonal*

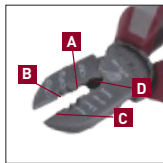
Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4272-145	8	5	1.7	145
4272-160	11	6	2.0	160
4272-180	13	7	2.5	180



**HIGHTECH 3C**



**Electrician side cutting nippers**  
*Alicate de corte diagonal para electricista*  
*Alicate de corte diagonal de electricista*

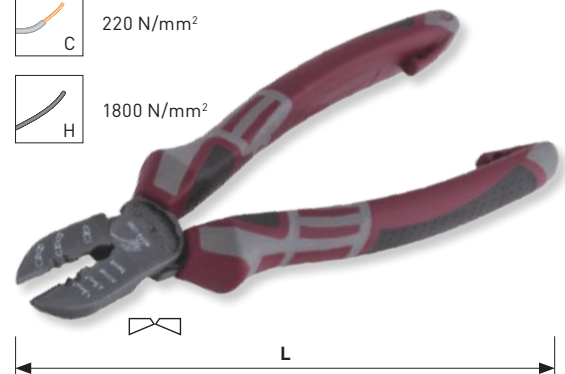


- A** crimping  
*prensar*  
*prensagem*
- B** stripping  
*pelar*  
*descaramento*  
1.5-2.5 mm<sup>2</sup>
- C** cutting  
*cortar*  
*corde*
- D** bending  
*doblar*  
*dobra*

Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4272-190	4	2	1	190



**HIGHTECH 3C**



**Side cutting nippers**  
*Alicate de corte diagonal*  
*Alicate de corte diagonal*

Art.	L mm
3282-140	140
3282-160	160

**ERGOKRAFT**



**High leverage side cutting nippers**  
**Alicate de corte diagonal extra fuerte**  
**Alicate de corte diagonal de alto desempenho**

Art.	M Ø mm	H Ø mm	P Ø mm	L mm
4273-180	3.7	2.6	2.2	180
4273-200	4.0	2.8	2.5	200

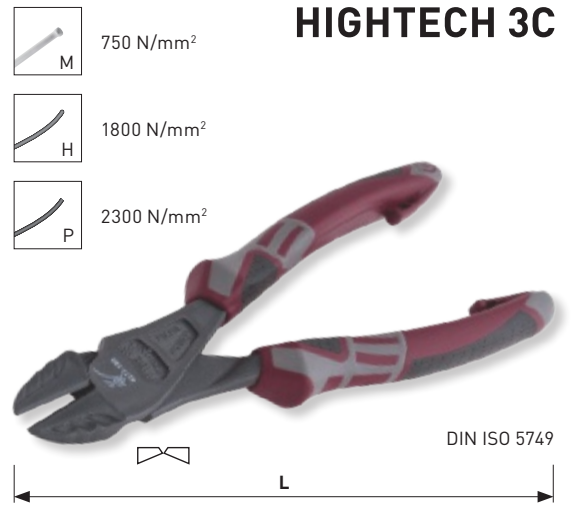
**Heavy duty lever side cutting nippers**  
 Extremely easy cutting with little strain grace to the ideal transmission of force with double-hinged design.  
**Alicate de corte diagonal extra fuerte con efecto palanca**  
*Corte extremadamente fácil con poco esfuerzo gracias a la transmisión óptima de fuerza por el diseño de doble articulación.*  
**Alicate de corte diagonal de alto desempenho**  
 Corte extremamente fácil com pouco esforço devido a transmissão ideal de força com o design de articulação dupla.



Art.	M Ø mm	H Ø mm	P Ø mm	L mm
4274-200	4.5	3.5	3.0	200

**High leverage side cutting nippers**  
**Alicate de corte diagonal extra fuerte**  
**Alicate de corte lateral**

Art.	L mm
3283-180	180



### Heavy duty lever end cutting nippers

Extremely easy cutting with little strain grace to the ideal transmission of force with double-hinged design.

#### **Alicate de corte frontal extra fuerte con efecto palanca**

*Corte extremadamente fácil con poco esfuerzo gracias a la transmisión óptima de fuerza por el diseño de doble articulación.*

#### **Alicate de corte frontal de alto desempenho**

Corte extremamente fácil com pouco esforço devido a transmissão ideal de força com o design de articulação dupla.



Art.	C Ø mm	M Ø mm	H Ø mm	L mm
4214-200	4.5	4.0	3.5	200

### End cutting nippers

#### **Alicate de corte frontal**

#### **Alicate de corte frontal**

Art.	L mm
3284-160	160

## HIGHTECH



750 N/mm<sup>2</sup>



1800 N/mm<sup>2</sup>



2300 N/mm<sup>2</sup>



**+ 150% POWER**



## ERGOKRAFT



## Long nose pliers

*Alicate de manipulación*

*Alicate de ponta semi-redonda*

Art.	C Ø mm	H Ø mm	L mm
4275-170	2.5	1.6	170
4275-205	3.9	2.2	205



## Multifunction long nose pliers 45°

- With 45° angle head for muscle and tendon gentle working grace to the straight posture of the hand at gripping, turning and pulling.

- Higher torque by the leverage effect of the angle.

### *Alicate de manipulación multifuncional 45°*

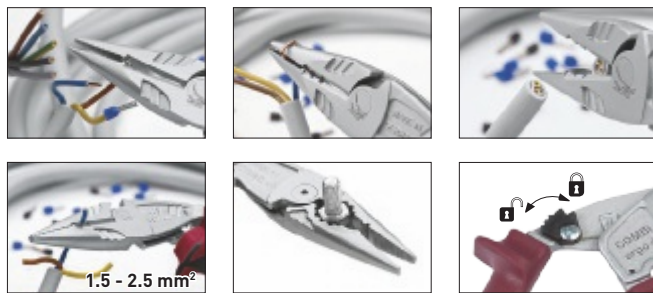
- Con cabeza angular 45°, respeta los músculos y tendones gracias a la postura recta de la mano al agarrar, girar y tirar.

- Mayor fuerza por el efecto del ángulo.

### *Alicate de ponta semi-redonda multi-função 45°*

- Com cabeça angular de 45° para um trabalho ergonómico graças a posição direita da mão quando aperta, vira e puxa.

- Elevado torque devido ao efeito de alavanca.



Art.	K mm <sup>2</sup>	K Ø mm	C Ø mm	H Ø mm	L mm
4205-200P	1.5-2.5	13	5.9	2.5	200



220 N/mm<sup>2</sup>

1800 N/mm<sup>2</sup>

## HIGHTECH

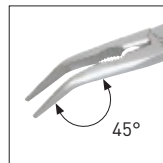


**Long nose pliers**  
*Alicate de manipulación*  
**Alicate de ponta semi-redonda**

Art.	L mm
3285-160	160
3285-200	200



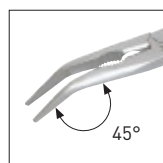
**Long nose pliers, angled 45°**  
*Alicate de manipulación, angular 45°*  
**Alicate de ponta semi-redonda, angular 45°**



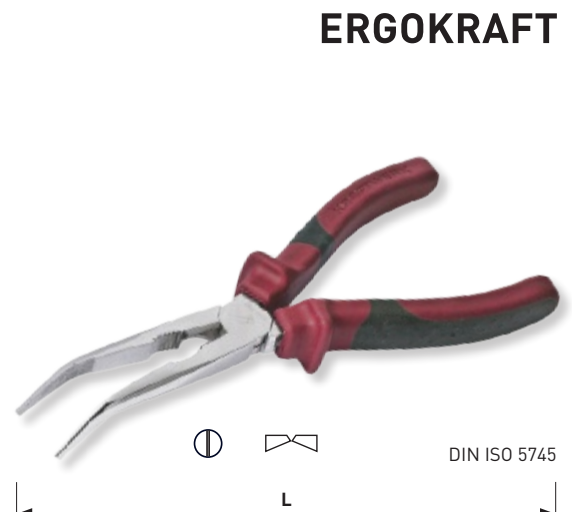
Art.	C Ø mm	H Ø mm	L mm
4276-205	3.9	2.2	205



**Long nose pliers, angled 45°**  
*Alicate de manipulación, angular 45°*  
**Alicate de ponta semi-redonda, angular 45°**



Art.	L mm
3286-200	200



### Special double X pliers set

with 2 extra long nose pliers, straight and 45°.  
Double-X-system for an optimal power transmission.

### Juego alicates especiales doble X

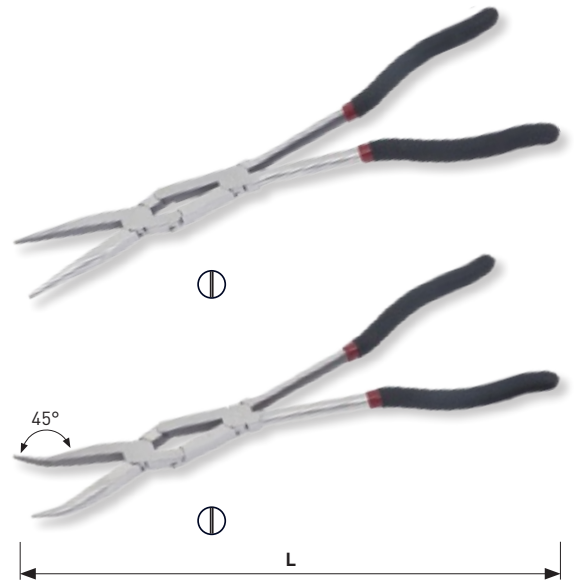
con 2 alicates de manipulación extra largos, recto y 45°.  
Sistema doble-X- para una óptima transmisión de fuerza.

### Conjunto de alicates especiais duplo X

com 2 alicates de pontas extra longas, direitas e a 45°.  
Sistema Duplo-X para uma excelente transmissão de força.



Art.	L mm
30001	330



### Flat nose pliers

*Alicate con bocas planas*

*Alicate de pontas planas*

Art.	L mm
4277-160	160

### HIGHTECH 3C



### Flat nose pliers

*Alicate con bocas planas*

*Alicate de pontas planas*

Art.	L mm
3287-160	160

### ERGOKRAFT





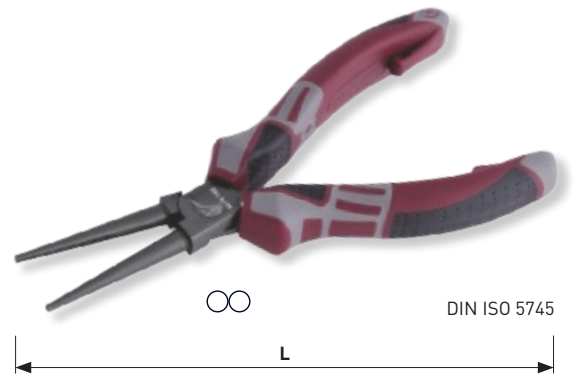
**Round nose pliers**

*Alicate con bocas redondas*

Alicate de pontas redondas

Art.	L mm
4278-160	160

**HIGHTECH 3C**



**Round nose pliers**

*Alicate con bocas redondas*

Alicate de pontas redondas

Art.	L mm
3288-160	160

**ERGOKRAFT**



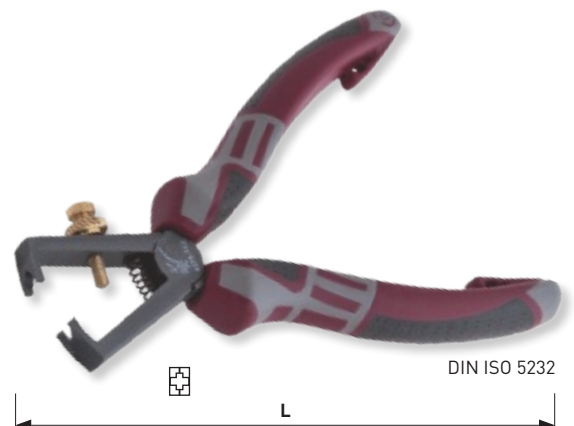
**Wire stripping pliers**

*Alicate pelacables*

Alicate descarnador de fio

Art.	K mm <sup>2</sup>	K Ø mm	L mm
4279-160	0.5 - 10	5	160

**HIGHTECH 3C**



**Multifunction wire stripping pliers**  
**Alicate pelacables multifuncional**  
**Alicate descarnador de fio multifunções**



Art.	K mm <sup>2</sup>	K Ø mm	C Ø mm	H Ø mm	L mm
4279-180	5 - 16	11	6	2	180



220 N/mm<sup>2</sup>



1800 N/mm<sup>2</sup>

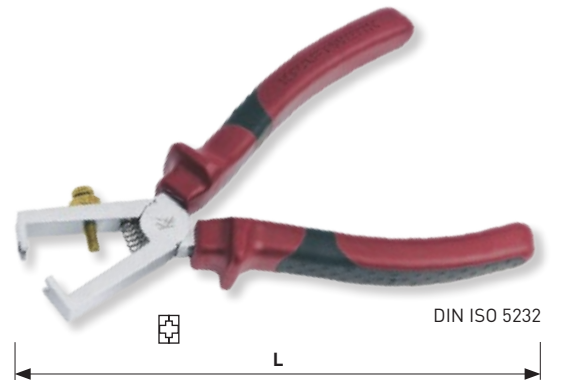
**HIGHTECH 3C**



**Wire stripping pliers**  
**Alicate pelacables**  
**Alicate descarnador de fio**

Art.	K mm <sup>2</sup>	K Ø	L mm
3289-160	0.5 - 10	5	160

**ERGOKRAFT**



**Pliers set**  
**Juego de alicates**  
**Jogo de alicates**



DIN ISO 5746

180 mm

Art. 3281-180



DIN ISO 5749

160 mm

Art. 3282-160



DIN ISO 5745

200 mm

Art. 3285-200



DIN ISO 8976

250 mm

Art. 2221-250

Art.
3292

**4**  
PCS

**ERGOKRAFT**



**Isolated combination pliers 1000 V**  
*Alicata universal aislado 1000 V*  
*Alicata universal aislado 1000 V*

Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4211-180	12	5.2	2.2	180



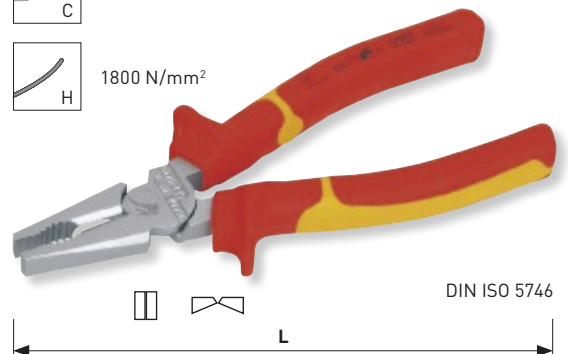
**HIGHTECH**



220 N/mm<sup>2</sup>



1800 N/mm<sup>2</sup>



**Isolated combination pliers 1000 V**  
*Alicata universal aislado 1000 V*  
*Alicata universal aislado 1000 V*

Art.	L mm
3281-180V	180



**ERGOKRAFT**



**Isolated side cutting nippers 1000 V**  
*Alicata de corte diagonal aislado 1000 V*  
*Alicata de corte diagonal aislado 1000 V*

Art.	K Ø mm	C Ø mm	H Ø mm	L mm
4212-160	11	6.0	2.0	160
4212-180	13	7.0	2.5	180



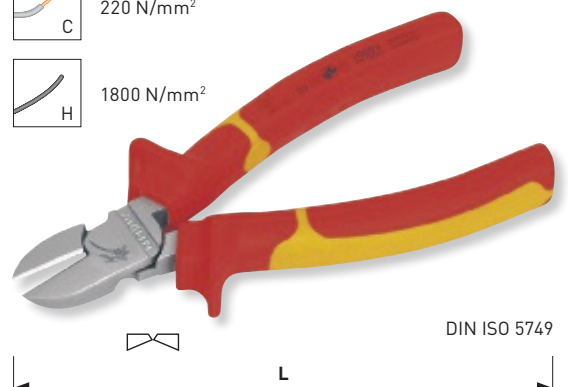
**HIGHTECH**



220 N/mm<sup>2</sup>



1800 N/mm<sup>2</sup>



**Isolated side cutting nippers 1000 V**  
**Alicate de corte diagonal aislado 1000 V**  
**Alicate de corte diagonal isolado 1000 V**



**ERGOKRAFT**

Art.	L mm
3282-160V	160

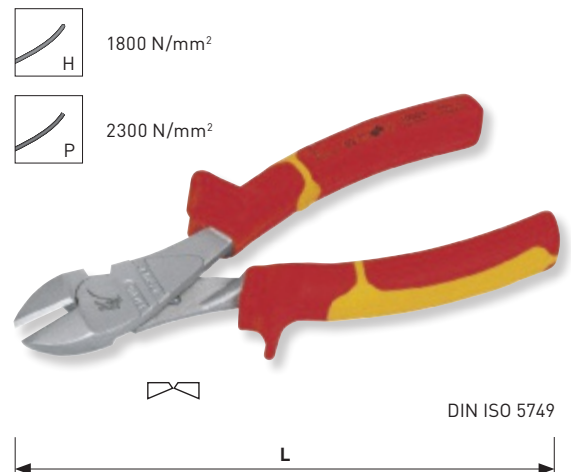


**Isolated high leverage side cutting nippers 1000 V**  
**Alicate de corte diagonal extra fuerte aislado 1000 V**  
**Alicate de corte diagonal de alta multiplicação isolado 1000 V**



**HIGHTECH**

Art.	H Ø mm	P Ø mm	L mm
4213-180	2.6	2.2	180
4213-200	2.8	2.5	200

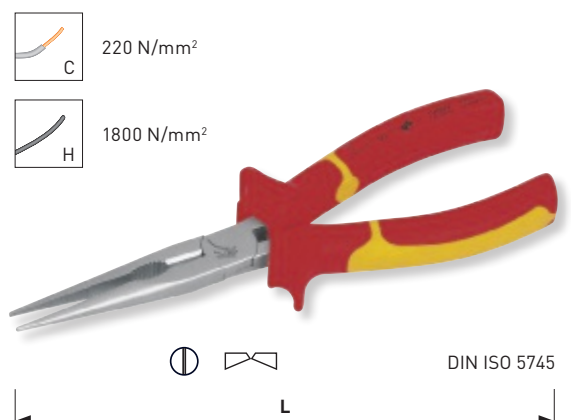


**Isolated long nose pliers 1000 V**  
**Alicate de manipulación aislado 1000 V**  
**Alicate de ponta semi-redonda isolado 1000 V**



**HIGHTECH**

Art.	C Ø mm	H Ø mm	L mm
4215-205	3.9	2.2	205



**Isolated long nose pliers 1000 V**  
*Alicate de manipulación aislado 1000 V*  
*Alicate de ponta semi-redonda isolado 1000 V*

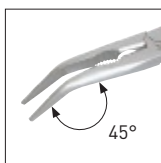


**ERGOKRAFT**



Art.	L mm
3285-200V	200

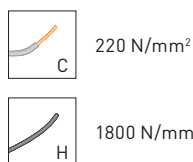
**Isolated long nose pliers, angled 45° 1000 V**  
*Alicate de manipulación, angular 45°, aislado 1000 V*  
*Alicate de ponta semi-redonda, angular 45°, isolado 1000 V*



Art.	C Ø mm	H Ø mm	L mm
4216-205	3.9	2.2	205



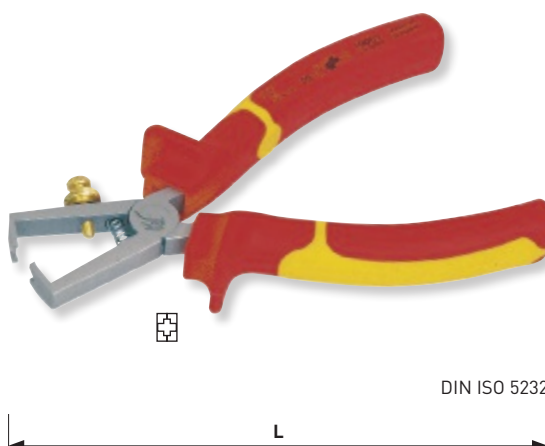
**HIGHTECH**



**Isolated wire stripping pliers 1000 V**  
*Alicate pelacables aislado 1000 V*  
*Alicate descarnador de fio isolado 1000 V*



**HIGHTECH**



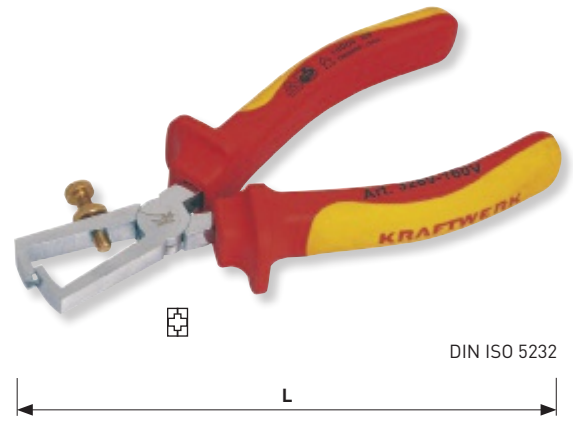
Art.	K mm²	K Ø mm	L mm
4219-160	0.5 - 10	5	160

**Isolated wire stripping pliers 1000 V**  
**Alicate pelacables aislado 1000 V**  
**Alicate descarnador de fio isolado 1000 V**



**ERGOKRAFT**

Art.	K mm <sup>2</sup>	K Ø mm	L mm
3289-160V	0.5 - 10	5	160



**Isolated cable-cutter 1000 V**  
**Alicate cortacables aislado 1000 V**  
**Alicate corta-cabo isolado 1000 V**



**HIGHTECH**

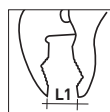
Art.	K mm <sup>2</sup> Al + Cu	K Ø Al + Cu	L Ø mm
4210-160	50	16	160
4210-210	70	25	210



**Isolated water pump pliers 1000 V**  
**Tenaza para bomba de agua aislada 1000 V**  
**Alicate bomba de água isolado 1000 V**



**HIGHTECH**

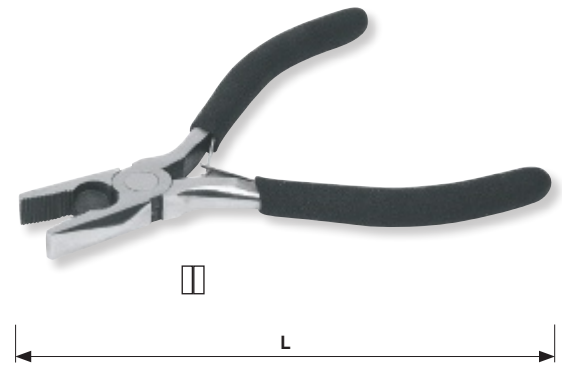


Art.	L1 mm	L2 mm
4220-250	50	250

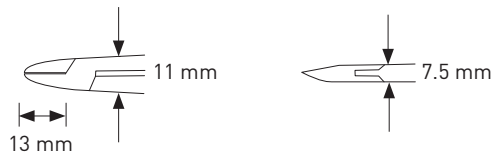


**Electronic linesman pliers**  
*Alicates universal electrónica*  
**Alicates universal electrónico**

Art.	L mm
2236	110



**Electronic side cutting nippers**  
*Alicates electrónica de corte diagonal*  
**Alicates electrónico de corte diagonal**



Art.	C Ø mm	H Ø mm	P Ø mm	L mm
4235-115	1.2	0.6	0.4	115



220 N/mm<sup>2</sup>

1800 N/mm<sup>2</sup>

2300 N/mm<sup>2</sup>

**HIGHTECH**



**Electronic round head side cutting nippers**  
*Alicates electrónica de corte diagonal, rasante*  
**Alicates electrónico de corte diagonal, cabeça redonda**

Art.	L mm
2234	110

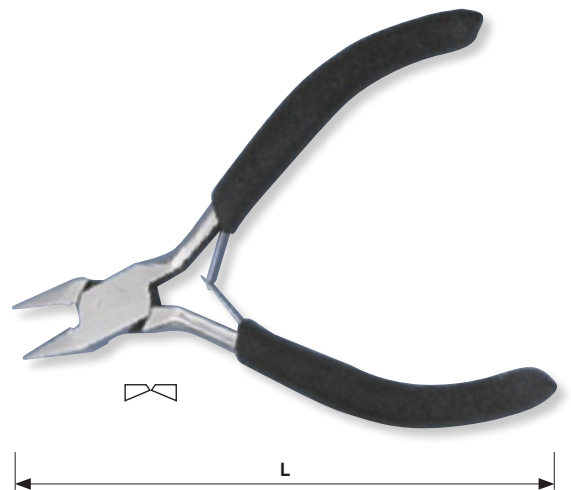


**Electronic triangle head side cutting nippers**

*Alicate electrónica de corte diagonal, semirasante*

**Alicate electrónico de corte diagonal, cabeza triángulo**

Art.	L mm
2235	105



**Electronic end cutting nippers**

*Alicate electrónica de corte frontal*

**Alicate electrónico de corte lateral**

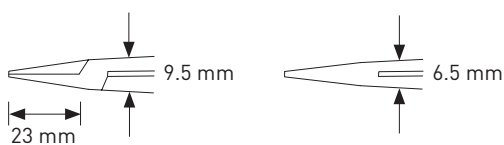
Art.	L mm
2237	100



**Electronic plain long nose pliers**

*Alicate electrónica de manipulación, bocas lisas*

**Alicate eletrônico de pontas semi-redondas suaves**



Art.	L mm
4233-115	115



**HIGHTECH**





**Electronic long nose pliers**

*Alicate electrónica de manipulación,  
bocas largas*

**Alicate electrónico de puntas semi-redondas**

Art.	L mm
2231	120

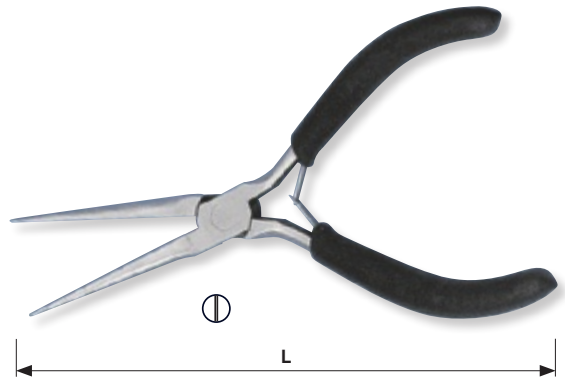


**Electronic extra long nose pliers**

*Alicate electrónica de manipulación,  
bocas extra-largas*

**Alicate electrónico de puntas semi-redondas  
longas**

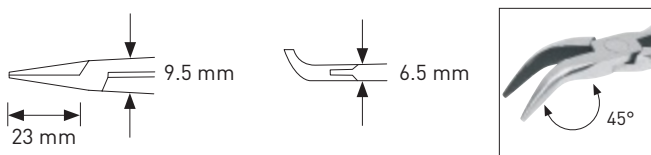
Art.	L mm
2232	150



**Electronic plain long nose pliers, angled 45°**

*Alicate electrónica de manipulación,  
angular 45°, bocas lisas*

**Alicate electrónico de puntas semi-redondas  
suaves, angular 45°**



Art.	L mm
4234-115	115



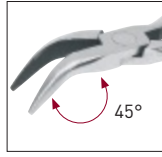
**HIGHTECH**



**Electronic long nose pliers, angled 45°**

*Alicate electrónica de manipulación, angular 45°*

**Alicate electrónico de puntas semi-redondas, angular 45°**



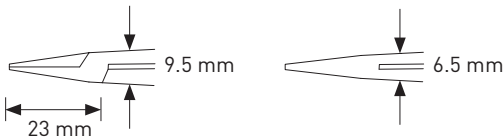
Art.	L mm
2238	115



**Electronic plain flat nose pliers**

*Alicate electrónica con bocas planas lisas*

**Alicate electrónico de puntas planas suaves**



Art.	L mm
4231-115	115



**HIGHTECH**

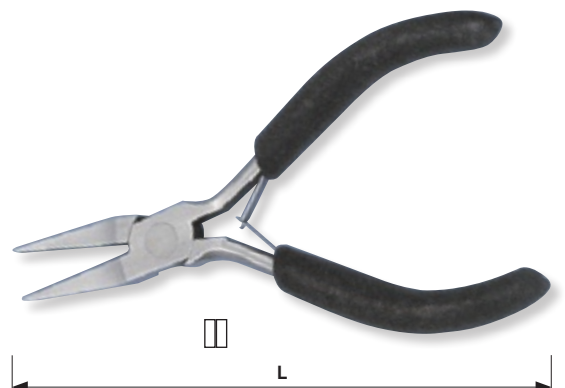


**Electronic flat nose pliers**

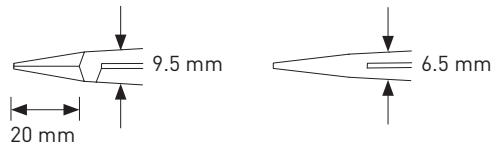
*Alicate electrónica con bocas planas*

**Alicate electrónico de puntas planas**

Art.	L mm
2233	120



**Electronic round nose pliers**  
*Alicate electrónica con bocas redondas*  
*Alicate electrónico de pontas redondas*



Art.	L mm
4232-115	115



**HIGHTECH**



**Carpenter's pincers**  
*Tenaza para carpintero*  
*Turquês de carpinteiro*

Art.	L mm
4242-180	180
4242-210	210
4242-250	250

**HIGHTECH**



**Carpenter's pincers**  
*Tenaza para carpintero*  
*Turquês de carpinteiro*

Art.	L mm
2216-180	180
2216-200	200




**High leverage tower pincers**  
**Tenaza de encofrador extra fuerte**  
**Turquês de carpinteiro de alto desempenho**


Art.	C Ø mm	M Ø mm	H Ø mm	L mm
4241-230	4.2	3.4	2.4	230
4241-260	4.2	3.8	2.6	260
4241-300	4.2	4.0	2.8	300

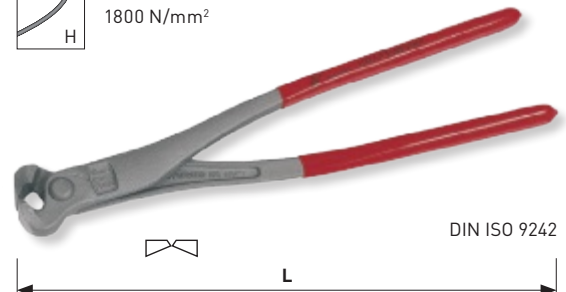
**+** 45% POWER

**HIGHTECH**

 C 220 N/mm<sup>2</sup>

 M 750 N/mm<sup>2</sup>

 H 1800 N/mm<sup>2</sup>



**Tower pincers**  
**Tenaza rusa**  
**Alicate turquesa**

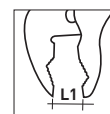
Art.	L mm
2217-250	250
2217-280	280



**Water pump pliers**  
 with inverted security box joint  
**Tenaza para bombas de agua**  
 con articulación machihembrada de seguridad

**Alicate tipo bomba de água**  
 com articulação de encaixe de passagem de segurança

Art.	L1 mm	L2 mm
4223-180	40	180
4223-240	50	240
4223-300	65	300
4223-400	100	400



**HIGHTECH**



### Water pump pliers

with inverted security box joint and direct adjusting push-button

### Tenaza para bombas de agua

con articulación machihembrada de seguridad y botón de presión para ajuste directo

### Alicate tipo bomba de água

com articulação de encaixe de passagem de segurança e botão de pressão de ajuste

Art.	L1 mm	L2 mm
4222-180	35	180
4222-250	50	250
4222-300	65	300

### 4Grip Water pump pliers

with inverted security box joint, direct adjusting push-button and automatic jaw adjustment = press the button, open the pliers, release the button and push the bottom jaw precisely to the workpiece! Dual serrated jaws for all kind of workpieces and nail-/wireholder. Safety protection for the fingers in every position. Compact, slim and robust.

### Tenazas para bombas de agua 4Grip

con articulación de encaje y bisagra de seguridad, botón de ajuste de presión y ajuste automático de la mandíbula = presione el botón, abra la pinza y posicione la boca superior en la pieza. Bocas con doble dentado para todo tipo de piezas, clavos o alambres. Protección de seguridad para dedos en cualquier posición. Compacto, fino y robusto.

### Alicate tipo bomba de água 4Grip

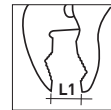
com articulação de encaixe de segurança, botão de pressão de ajuste e ajuste automático do maxilar = pressione o botão, abra o grampo e coloque na peça. Maxilares com duplo mordentes em forma de diamante para todas as peças, pregos e arame. Proteção de aperto em cada posição. Compacto, fino e robusto.

Art.	L1 mm	L2 mm
4224-250	50	250
4224-320	75	320
4224-400	100	400
4224	Set / Juego / Jogo 4224-250 + 4224-320	250 + 320



40% > DIN ISO

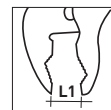
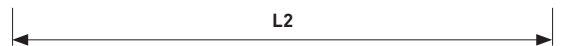
drag & drop



**HIGHTECH**



DIN ISO 8976



**4GRIP**

**HIGHTECH**

DIN ISO + 40%



DIN ISO 8976



**2**  
PCS



## Water pump pliers

with box joint and soft-grip handles

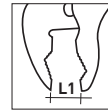
### Tenaza para bombas de agua

con articulación machihembrada y mango soft-grip

### Alicate tipo bomba de água

com articulação de encaixe de passagem e cabos soft-grip

Art.	L1 mm	L2 mm
3290-175	25	180
3290-250	32	250
3290-300	42	300
99067	Set / Juego / Jogo	180 + 250 + 300



**ERGOKRAFT**



**3**  
PCS

## Automatic water pump pliers

with practical automatic adjustment for one-hand operation, optimal for narrow spaces. Isolated soft-grip handles.

### Pinzas automáticas Quick-Grip

regulables con una sola mano, óptimo para espacios estrechos. Mango aislado.

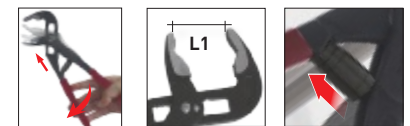
### Alicates bomba água Quick-Grip

Regulável com uma mão apenas. Ótimo para espaços apertados. Pegas isoladas.

Art.	L1 mm	L2 mm	L2 inch
3266-180	32	180	7"
3266-250	40	250	10"
3266-300	50	300	12"
3266SET	32+40+50	180+250+300	7"+10"+12"



**3**  
PCS



### Pliers wrench

with inverted security box joint, direct adjusting push-button and swivelling, parallel gripping jaws.

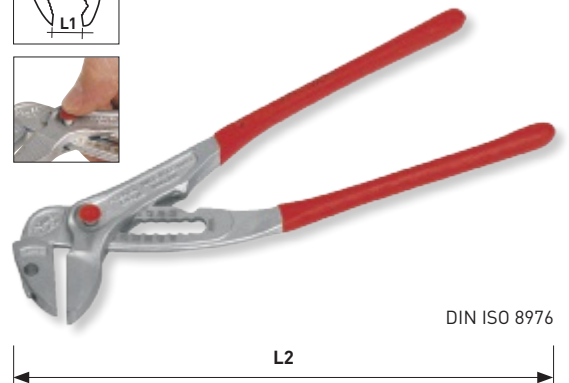
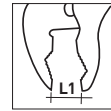
#### Tenaza llave

con articulación de encaje y bisagra de seguridad, botón de ajuste de presión y ajuste automático de la mandíbula.

#### Alicate extensível tipo bomba de água

com articulação de encaixe de passagem de segurança, botão de pressão de ajuste e maxilares paralelos e móveis.

Art.	L1 mm / "	L2 mm
4225-250	0-53 / 0-2	250



### Swedish pattern pipe wrench

head 45°, angled S-type jaw

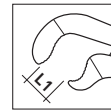
#### Llave grifa modelo sueco

cabeza 45°, dentado en "S"

#### Chave de tubos tipo sueca

cabeça 45°, mordente "S"

Art.	L1 inch	L2 mm
5406-320	1"	320
5406-420	1-1/2"	420
5406-540	2"	540

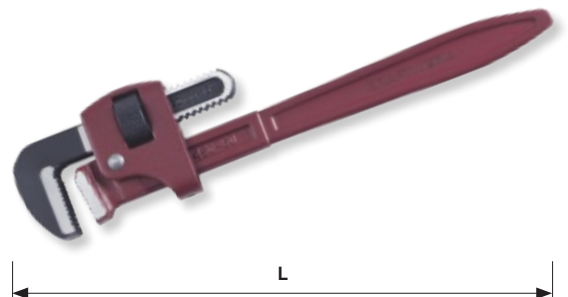


### Stillson pattern pipe wrench

#### Llave grifa modelo Stillson

#### Chave de tubos tipo Stillson

Art.	L mm / inch
5405-250	250 / 10"
5405-350	350 / 14"
5405-450	450 / 18"
5405-600	600 / 24"
5405-900	900 / 36"



### Pipe wrench with adjustable head

"Stillson"-type, with aluminium die cast body and 180° swivel aluminium handle, jaws made of chrome-molybdenum steel, infinitely adjustable with the knurling nut, maximum jaw-opening 2" / 52 mm.

### Llave grifa con cabeza regulable

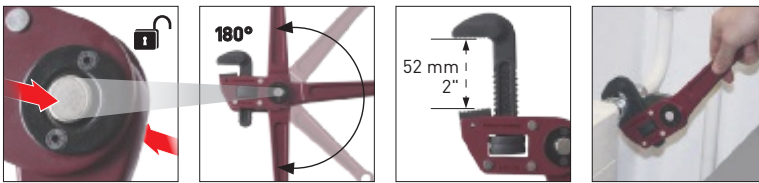
tipo "Stillson", con cuerpo de aluminio fundido, cabeza de aluminio regulable a 180°, bocas en acero cromo molibdeno, apertura regulable máximo 2" / 52 mm.

### Chave de tubos com várias posições de cabeça

tipo "Stillson", com corpo em alumínio fundido, cabeça em alumínio regulável a 180°, bocas em aço molibdeno, abertura regulável 2" / 52 mm.



Art.
5405-290



### Step wrench set

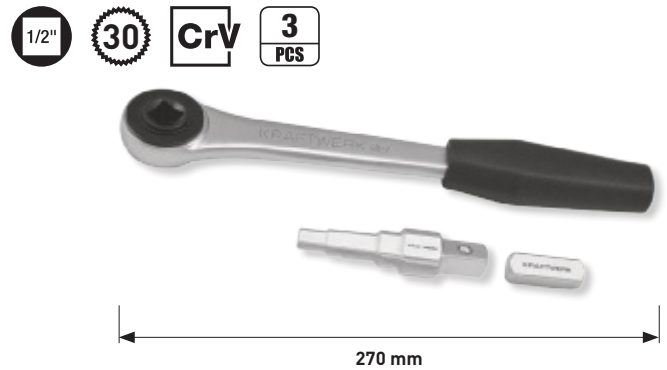
5 steps, with go-through ratchet handle and socket adapter 1/2" dr.

### Juego de llave de montaje graduada

5 graduaciones, con carraca pasante y adaptador llaves de vaso 1/2"

### Jogo de chave de montagem escalonada

5 escalas, com roquete de aperto e adaptador chaves de caixa 1/2"



Art.	
5461SET	



### Circlips pliers

for external rings, opening straight tips, with spring

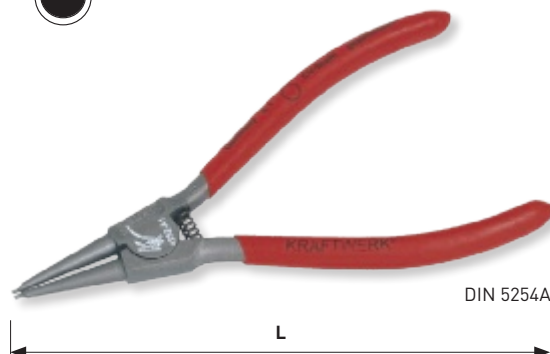
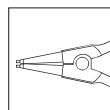
#### **Alicate para arandelas**

*exteriores, puntas abiertas y rectas*

#### **Alicate de freios**

exteriores, pontas direitas abertas, com mola

Art.	Typ / mm	Ø mm	L mm
4252-A0	A0 / 3-10	0.9	135
4252-A1	A1 / 10-25	1.3	135
4252-A2	A2 / 19-60	1.8	175
4252-A3	A3 / 40-100	2.3	220
4252-A4	A4 / 85-165	3.2	310



**HIGHTECH**

### Circlips pliers

for external rings, opening straight tips, with spring

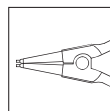
#### **Alicate para arandelas**

*exteriores, puntas abiertas y rectas*

#### **Alicate de freios**

exteriores, pontas direitas abertas, com mola

Art.	Typ / mm	Ø mm	L mm
2212-A2	A2 / 19-60	1.8	180



### Circlips pliers

for external rings, opening 90° bent tips, with spring

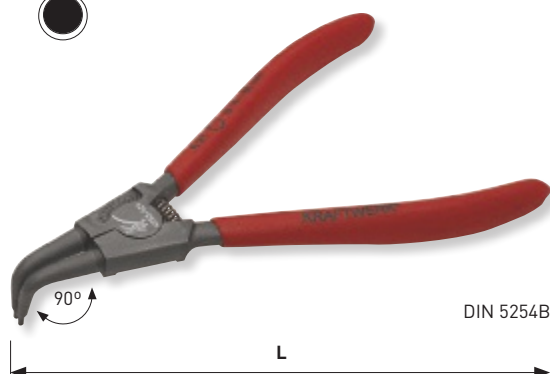
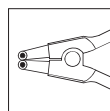
#### **Alicate para arandelas**

*exteriores, puntas abiertas y curvas en ángulo de 90°*

#### **Alicate de freios**

exteriores, pontas angulares de 90° abertas

Art.	Typ / mm	Ø mm	L mm
4253-A01	A01 / 3-10	0.9	125
4253-A11	A11 / 10-25	1.3	125
4253-A21	A21 / 19-60	1.8	165
4253-A31	A31 / 40-100	2.3	200
4253-A41	A41 / 85-165	3.2	290



**HIGHTECH**

### Circlips pliers

for external rings, opening 90° bent tips, with spring

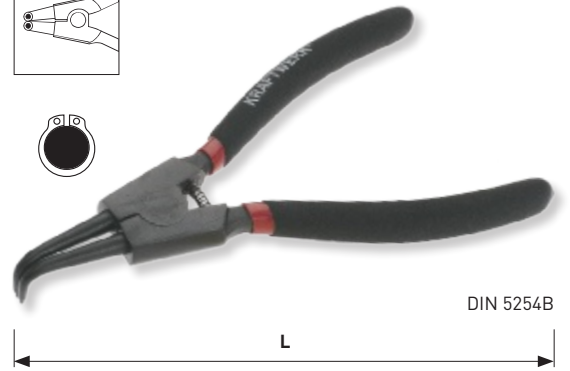
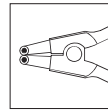
#### Alicate para arandelas

exteriores, puntas abiertas y curvas en ángulo de 90°

#### Alicate de freios

exteriores, puntas angulares de 90° abiertas

Art.	Typ / mm	Ø mm	L mm
2213-A21	A21 / 19-60	1.8	165



DIN 5254B

### Circlips pliers

for internal rings, closing straight tips

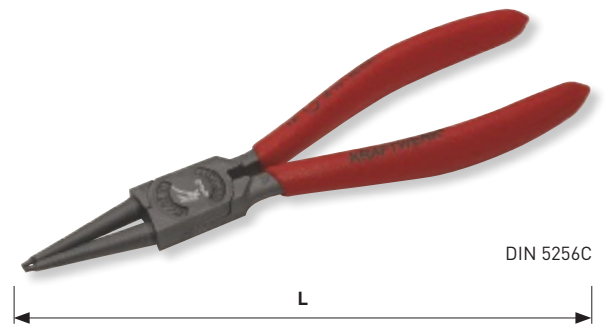
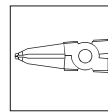
#### Alicate para arandelas

interiores, puntas cerradas y rectas

#### Alicate de freios

interiores, puntas dereitas fechadas

Art.	Typ / mm	Ø mm	L mm
4254-J0	J0 / 8-13	0.9	135
4254-J1	J1 / 12-25	1.3	135
4254-J2	J2 / 19-60	1.8	175
4254-J3	J3 / 40-100	2.3	220
4254-J4	J4 / 85-165	3.2	310



DIN 5256C

HIGHTECH

### Circlips pliers

for internal rings, closing straight tips

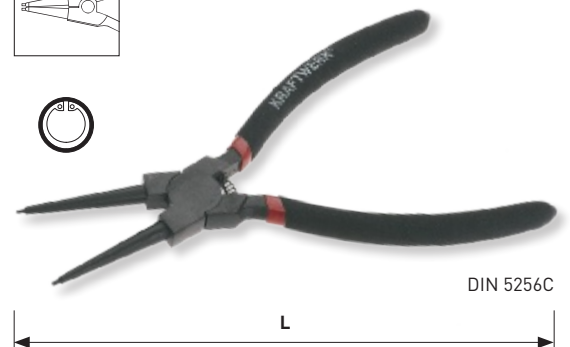
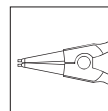
#### Alicate para arandelas

interiores, puntas cerradas y rectas

#### Alicate de freios

interiores, puntas dereitas fechadas

Art.	Typ / mm	Ø mm	L mm
2214-J2	J2 / 19-60	1.8	180



DIN 5256C

**Circlips pliers**

for internal rings, closing 90° bent tips

**Alicate para arandelas**

interiores, puntas cerradas y curvas en ángulo de 90°

**Alicate de freios**

interiores, pontas angulares de 90° fechadas

Art.	Typ / mm	Ø mm	L mm
4255-J01	J01 / 8-13	0.9	125
4255-J11	J11 / 12-25	1.3	125
4255-J21	J21 / 19-60	1.8	165
4255-J31	J31 / 40-100	2.3	200
4255-J41	J41 / 85-165	3.2	290

**Circlips pliers**

for internal rings, closing 90° bent tips

**Alicate para arandelas**

interiores, puntas cerradas y curvas en ángulo de 90°

**Alicate de freios**

interiores, pontas angulares de 90° fechadas

Art.	Typ / mm	Ø mm	L mm
2215-J21	J21 / 19-60	1.8	165

**Circlips pliers set**

**Juego de alicates para arandelas**

**Jogo de alicates de freios**

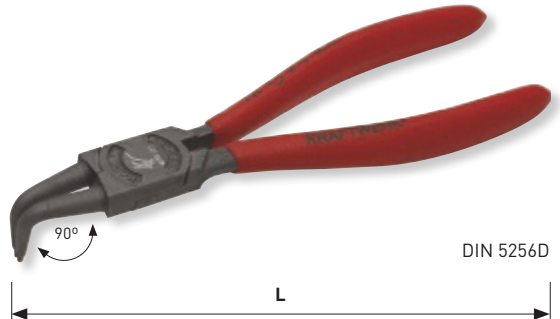
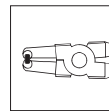
Art.	content / contiene / contém
4286	4252-A2, 4253-A21, 4254-J2, 4255-J21

**Circlips pliers set**

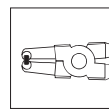
**Juego de alicates para arandelas**

**Jogo de alicates de freios**

Art.	content / contiene / contém
2212	2212-A2, 2213-A21, 2214-J2, 2215-J21

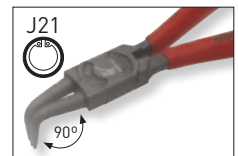
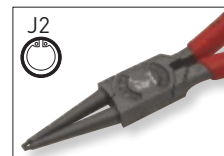
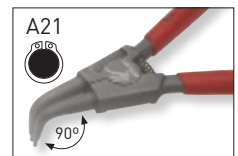


**HIGHTECH**

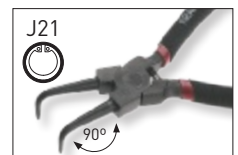
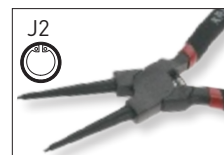
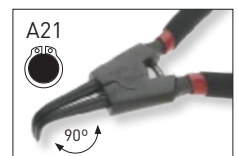


**HIGHTECH**

**4**  
PCS



**4**  
PCS



### Combined 4-in-1 circlips pliers

for external and internal circlips from 10 to 50 mm, with 4 tip-heads for 180°, 90°, 45° to be changed within seconds, for 6 different applications.

#### Alicate combinado 4-en-1 para arandelas

exteriores e interiores de 10 a 50 mm com 4 cabeças de pontas de 180°, 90°, 45°. Cambio de cabeças em segundos para 6 usos diferentes.

#### Alicate combinado 4-em-1 para freios

exteriores e interiores de 10 a 50 mm com 4 cabeças de ponta para 180°, 90°, 45°. Trocando cabeças em segundos para 6 aplicações diferentes.

Art.	Typ / mm	Ø mm	L mm
2211	A1-A2, J1-J2 / 10-50 mm	1.35	155

4  
PCS



### Hose clip pliers

Alicate para racores

Alicate para abraçadeiras

Art.	L mm
4251-175	175



HIGHTECH

### Tire balancing wheel weight plier

Alicate para el equilibrado de ruedas

Alicate para pesos

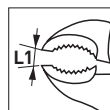
Art.	L mm
4256-240	240



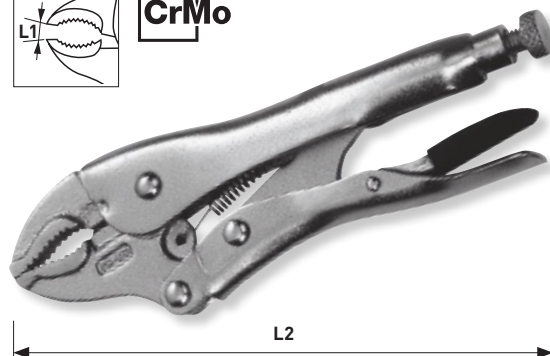
AUTOMOTIVE

**Curved jaws locking pliers**  
*Tenaza grip de bocas curvas*  
**Alicate de pressão maxilas côncavas**

Art.	L1 mm	L2 mm / inch
3292-175	43	max. 175 / 7"
3292-250	58	max. 250 / 10"

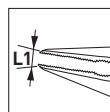


**CrMo**

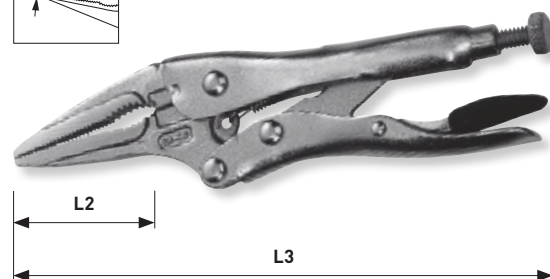


**Long nose locking grip pliers**  
*Tenaza grip de bocas largas*  
**Alicate de pressão bicos longos**

Art.	L1 mm	L2 mm	L3 mm / inch
3292-150	50	45	max. 150 / 6"

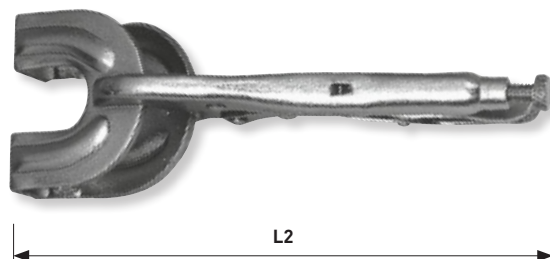
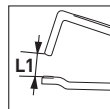


**CrMo**



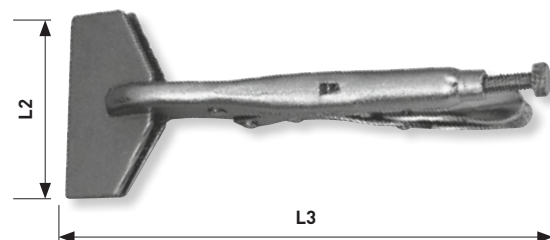
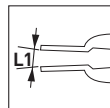
**Locking welding clamp**  
*Tenaza grip para soldador*  
**Alicate de pressão para soldadura**

Art.	L1 mm	L2 mm / inch
2252-225	41	max. 225 / 9"

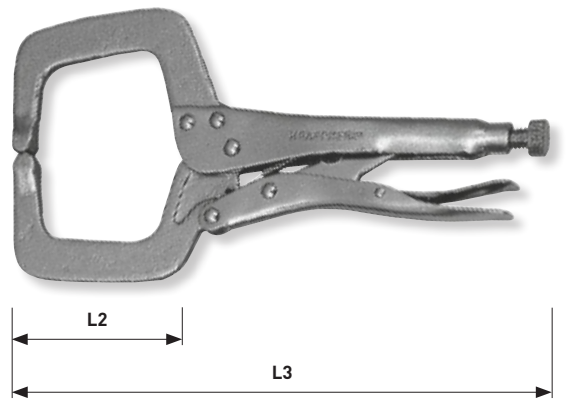
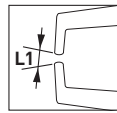


**Sheet metal clamp**  
*Tenaza grip para chapa*  
**Alicate de pressão para latoeiros**

Art.	L1 mm	L2 mm	L3 mm / inch
2253-200	48	79	max. 200 / 8"



**Locking "C"- clamp pliers**  
**Mordaza grip de cuello de cisne**  
**Alicate de pressão pescoço de cisne**



Art.	L1 mm	L2 mm	L3 mm / inch
2254-275	95	95	max. 275 / 11"

**Revolving punch pliers**  
**Pinza sacabocados de revolver**  
**Alicate vazador**

**HIGHTECH**



Art.	Ø mm	L mm
4248-220	2 - 4.5	220

**Lever action revolving punch pliers**  
**Pinza sacabocados de revolver con función carraca**  
**Alicate vazador com função roquete**

**HIGHTECH**



Art.	Ø mm	L mm
4248-250	2 - 4.5	250

**Revolving punch and eyelet pliers**  
**Pinza de sacabocados y ojales de revolver**  
**Alicate vazador e colocação de olhais**

**HIGHTECH**

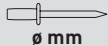


Art.	Ø mm	L mm
4249-220	4 - 5	220

**Hand riveter**

*Remachadora manual*

**Alicate de rebitar manual**

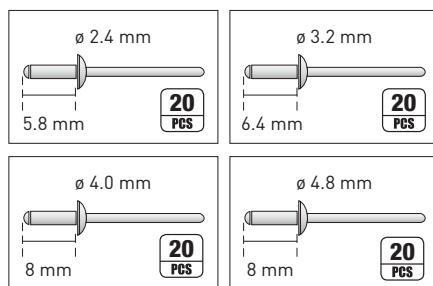
Art.	 $\varnothing$ mm	L mm
2223	2.4-3.2-4.0-4.8	250

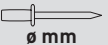



**Hand riveter set**

*Kit remachadora manual*

**Conjunto de alicates de rebitar manual**



Art.	 $\varnothing$ mm	 pcs.
2224	2.4-3.2-4.0-4.8	20



**Nozzle for hand riveter**

*Boquilla para remachadora manual*

**Nariz para alicate de rebitar manual**

Art.	$\varnothing$ mm
2223-2.4	2.4
2223-3.2	3.2
2223-4.0	4.0
2223-4.8	4.8

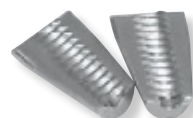


**Pair of jaws for hand riveter**

*Par de mordazas para remachadora manual*

**Par de garras para alicate de rebitar manual**

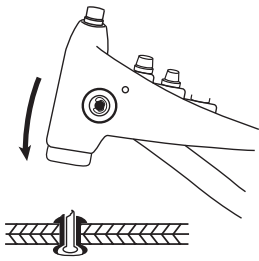
Art.
2223-01



**Industrial hand riveter tool case**  
**Estuche remachadora manual industrial**  
**Kit de alicates de rebitar manual industrial**



**HIGHTECH**




320 x 148 x 48 mm

Art.	$\varnothing$ mm
4261	2.4-3.2-4.0-4.8

**Nozzle for hand riveter**  
**Boquilla para remachadora manual**  
**Nariz para alicate de rebitar manual**

Art.	$\varnothing$ mm
4261-1	2.4
4261-2	3.2
4261-3	4.0
4261-4	4.8



**Pair of jaws for hand riveter**  
**Par de mordazas para remachadora manual**  
**Par de garras para alicate de rebitar manual**

Art.
4261-5

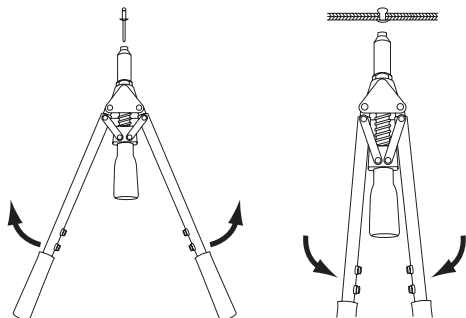




**Industrial lever type hand riveter tool case**  
*Estuche remachadora manual con efecto palanca*  
**Kit de alicata de rebitar de brazos industrial**



**HIGHTECH**



575 x 185 x 52 mm

Art.	Ø mm
4262	3.2-4.0-4.8-6.0-6.4

**Nozzle for hand riveter**  
*Boquilla para remachadora manual*  
**Nariz para alicata de rebitar manual**

Art.	Ø mm
4262-1	3.2
4262-2	4.0
4262-3	4.8
4262-4	6.0
4262-5	6.4



**Jaws for hand riveter**  
*Bocas para remachadora manual*  
**Garras para alicata de rebitar manual**

Art.
4262-7



**Nozzle Monobolt for hand riveter**  
*Boquilla Monobolt para remachadora manual*  
**Nariz Monobolt para alicata de rebitar manual**

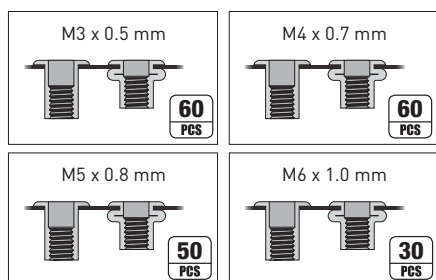
Art.	Ø mm
4262-8	4.8/5 MB
4262-9	6.4mm MB




**Industrial hand rivet nut tool case**  
**Estuche de remachadora de tuerca industrial**  
**Kit de alicate de rebitar manual industrial**




**HIGHTECH**



Art.	
4263	M3-M4-M5-M6

 320 x 148 x 48 mm

**Rivet nut nozzle**  
**Boquilla para remachadora de tuerca**  
**Nariz para alicate de rebitar**

Art.	
4263-1	M3
4263-2	M4
4263-3	M5
4263-4	M6



**Thread bolt for hand rivet nut tool**  
**Repuesto para remachadora de tuerca**  
**Cabeça parafuso para alicate de rebitar**

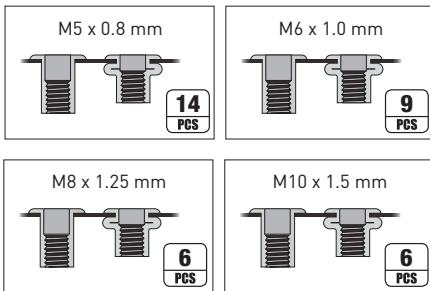
Art.	Ø
4263-5	M3
4263-6	M4
4263-7	M5
4263-8	M6




Industrial lever hand rivet nut tool kit  
*Estuche de remachadora de tuerca extrafuerte*  
 Kit de alicates de rebitar de braços industrial




**HIGHTECH**



↔ 575 x 185 x 52 mm

Art.	
4264	M5-M6-M8-M10

Threaded mandrel and nose piece  
*Cabezal para remachadora de tuerca*  
 Mandril e bico para alicate de rebitar de braços industrial

Art.	
4264-1	M4
4264-2	M5
4264-3	M6
4264-4	M8
4264-5	M10



## Bolt cutter

with specially precisely polished heads made of chrome molybden steel. Ergonomic bi-material handles.

### Cortavarilla

con cabezas pulido especial, realizado en acero cromo molibdeno. Mangos ergonómicos bimatériaes.

### Corta parafusos

com cabeças especiais polidas, fabricado em aço cromo molibdênio. Punhos ergonómicos bimatéria.

Art.	15 HRC mm	35 HRC mm	L mm / inch
4260-18	8	6	450 / 18"
4260-24	10	8	600 / 24"
4260-30	13	10	750 / 30"
4260-36	16	11	900 / 36"
4260-42	18	13	1050 / 42"



HIGHTECH



## Spare-head-set for bolt cutter

### Recambio boca cortavarillas

### Cabeça para corta parafusos

Art.	L mm / inch
4260-18E	450 / 18"
4260-24E	600 / 24"
4260-30E	750 / 30"
4260-36E	900 / 36"
4260-42E	1050 / 42"



HIGHTECH

## Mini cable cutter

### Juego cuchillas para cortavarillas

### Mini Corta Cabos

Art.	H mm	S mm	L mm
2262-07	2.5	4.0	195



**Strap wrench**  
*Llave de correa*  
*Chave de cinta*

Art.	∅ mm	L mm / inch
5418-300	0 - 225mm / 9"	300 / 12"





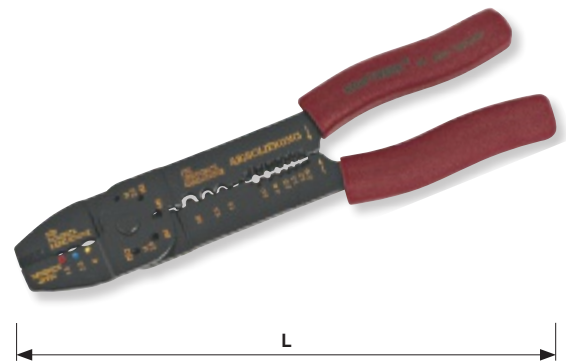
**Tube bender 3 in 1**  
*Curvadora 3 en 1*  
*Curvador de tubos 3 em 1*

Art.	∅	C	L mm
5451	1/4" - 3/8" Cu / Me / Al	max. 180°	225



**Crimping pliers**  
*Alicate para engastar terminales*  
*Alicate de cravar terminais*

Art.	 mm <sup>2</sup>	 mm <sup>2</sup>	L mm
2225	1.5 - 6	1.5 - 6	240



## 5-in-1 crimping and wire stripping pliers



hardened and with ground edges for professional and industrial use.

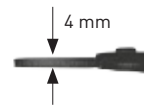
### Alicate para engastar con pelacables "5 en 1"

endurecido y con bordes redondeados para uso profesional e industrial.

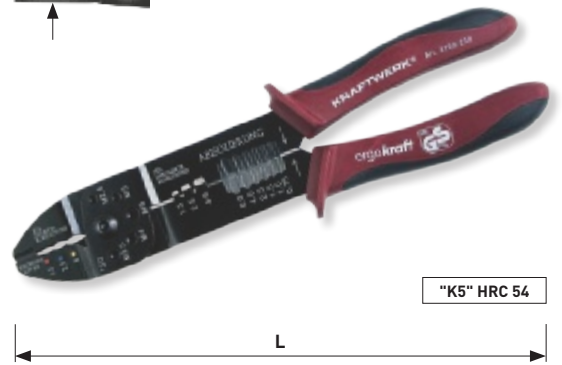
### Alicate 5-em-1 cravar e descarnar

endurecido para uso profissional e industrial.

Art.	 mm <sup>2</sup>	 mm <sup>2</sup>	L mm
3290-230	1.5 - 6	1.5 - 6	230

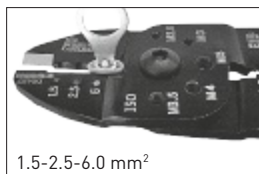


**ERGOKRAFT**



1.5-2.5-4.6 mm<sup>2</sup>

Wire cutter  
Corta cable  
Corta fios



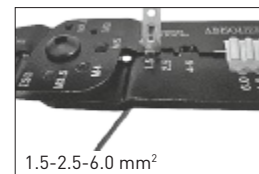
1.5-2.5-6.0 mm<sup>2</sup>

Crimping pliers for insulated terminals  
Alicate para engastar terminales no aislados  
Crava terminais isolados



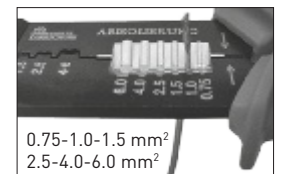
M2.6-M3.5-M4-M5

Bolt cutter  
Para pernos  
Corta parafusos



1.5-2.5-6.0 mm<sup>2</sup>

Crimping pliers for open barrel terminals  
Engastar terminales abiertos  
Crava terminais abertos



0.75-1.0-1.5 mm<sup>2</sup>  
2.5-4.0-6.0 mm<sup>2</sup>

Wire Stripper for cables  
Pelacables  
Descarnador de fios

## Ratchet lever crimping pliers

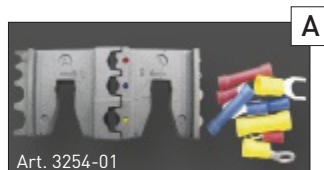
with interchangeable jaws including crimping jaws for insulated terminals and closed, non insulated terminals and non insulated ferrules.

### Alicates de carraca para engastar terminales

con cabezales intercambiables para terminales de cables aislados y terminales de cables sin aislar.

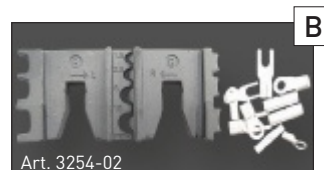
### Alicate de roquete para cravar terminais

com cabeças intermutáveis incluindo para terminais isolados e terminais não-isolados.



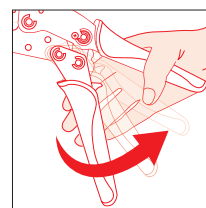
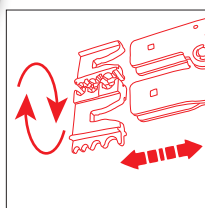
Art. 3254-01


DIN 0.5-1.0 / 1.5-2.5 / 4-6 mm<sup>2</sup>  
AWG 22-18 / 16-14 / 12-10



Art. 3254-02

DIN 1.5 / 2.5 / 6 / 10 mm<sup>2</sup>  
AWG 20-18 / 16-14 / 12-10 / 8  
JIS 1.25 / 2 / 5.5 / 8 mm<sup>2</sup>



Art.	incl. 	L mm
3254	1x 3254-01 1x 3254-02	220

**Ratchet lever crimping pliers case**

with interchangeable jaws including crimping jaws for insulated terminals and closed, non insulated terminals and non insulated ferrules.  
Empty compartments for supplementary jaws or to store terminals.

**Estuche de alicates de carraca para engastar terminales**

con cabezales intercambiables para terminales de cables aislados y terminales de cables sin aislar.  
Compartimentos vacíos para los cabezales suplementarios y depósito de terminales.

**Alicate de roquete para cravar terminais em Estojo**

com cabeças intermutáveis incluindo para terminais isolados e terminais não-isolados.  
Compartimentos vazios para cabeças suplementares.  
Gli scomparti vuoti possono essere utilizzati per le ganasce supplementari o per i terminali non utilizzati.



280 x 150 x 40 mm




Art. 3291-01  
DIN 0.5-1.0 / 1.5-2.5 / 4-6 mm<sup>2</sup>  
AWG 20-18 / 16-14 / 12-10



Art. 3291-02  
DIN 1.5 / 2.5 / 6 / 10 mm<sup>2</sup>  
AWG 20-18 / 16-14 / 12-10 / 8  
JIS 1.25 / 2 / 5.5 / 8 mm<sup>2</sup>



Art.	incl. 	L mm
3291	1x 3291-01 1x 3291-02	220

**Ratchet lever crimping pliers without jaw**

**Alicates de carraca para engastar terminales sin cabezal intercambiable**

**Alicate de Roquete para cravar terminais sem cabeça**

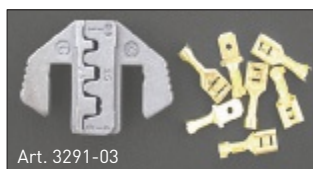


Art.	L mm
3291-220	220

**Optional crimp jaws**

**Bocas opcionales**

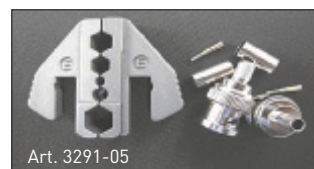
**Opcional crimp morre**



Art. 3291-03  
DIN 0.5-1.0 / 1.5-2.5 / 4-6 mm<sup>2</sup>  
AWG 20-18 / 16-14 / 12-10



Art. 3291-04  
DIN 0.5 / 0.75 / 1.0 / 1.5 / 2.5 / 4.0 mm<sup>2</sup>  
AWG 22 / 20 / 18 / 16 / 14 / 12



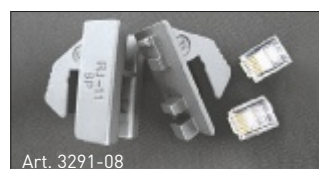
Art. 3291-05  
Coaxial RG 58, 59, 62, 6.  
6.48 / 5.41 / 2.5 / 1.72 / 8.23 mm<sup>2</sup>  
0.255 / 0.213 / 0.1 / 0.68 / 0.324"



Art. 3291-06  
DIN 6 / 10 / 16 mm<sup>2</sup>  
AWG 10 / 8 / 6



Art. 3291-07  
4P4C / RJ22



Art. 3291-08  
6P2C / 6P4C / RJ11  
6P6C / RJ12



Art. 3291-09  
8P8C / RJ45



Art. 3291-10  
DIN 2.5 / 0.5 / 8-10 mm<sup>2</sup>  
AWG 14 / 22 / 8-6

