

BERNSTEIN-Pliers are made from specially selected top-quality special steels. The blanks are drop-forged and are then further processed in accordance with the latest production techniques.

BERNSTEIN pliers are oil-hardened and all cutting pliers additionally undergo subsequent induction hardening. All pliers are carefully produced for the cutting capacities indicated, either with a side face for cutting hard and soft wire or without a side face for flush cutting soft wire only.

BERNSTEIN pliers without side faces are marked with a dot on the head of the pliers. In the case of pliers for electronic engineers, the cutting capacities are indicated on the handle.

All BERNSTEIN pliers are guaranteed tools. Defective pliers will be replaced if they contain material or production defects.

Special design features

Most BERNSTEIN pliers for electronic engineers are produced with a **box joint**.



As a result of this expensive design, optimum parallel guiding edges is obtained and the service lives are long.

The decision to produce a **lap joint**



or a **lay-on joint**



is made according to the type of pliers and the use.

Finishes

BERNSTEIN-pliers are supplied as standard in the following finishes:

Bright-polished chrome-plated
Fine-polished and bright-burnished
Bright steel-polished
Nickel-plated
Burnished

Additional insulation or other types of finish are indicated by a suffix after the article number

Finish	No.suffix
chrome-plated, polished	without
with transparent hand-guard (=BERNSTEINIT-insulation)	-1
with transparent or coloured insulation	-2
with conductive black hand-guard	-13
with yellow-grey hand-guard	-20
nickel-plated	-3
with transparent hand-guard (=BERNSTEINIT-insulation)	-4
with coloured hand-guard insulation	-5
with coloured insulation	-6
steel-polished	
with coloured hand-guard insulation	-8
with coloured insulation	-9
with conductive black hand-guard	-13
burnished	-10
with coloured insulation	-12
bright-burnished, fine-polished	
with yellow-grey hand-guard	-14
with conductive black-yellow hand-guard	-15
Safety insulation	
VDE-safety insulation	-VDE
two-colour multilayered insulation	-VDE
ESD/EGB-insulations	
conductive black hand-guard	-13
conductive black-yellow hand-guard	-15

Only the finishes indicated in the descriptions of the pliers are available from stock, all other finishes are available on request.


Packing

All pliers are supplied in skin packs as standard. Packing in plastic bags can also be selected if required. Both are for recycling. Quantities of 10 pairs of pliers per type are packed in a 3-coloured covered box and are clearly labelled.



SPECIAL ELECTRONIC PLIERS EUROline-Conductive



Box joint 
 Double leaf spring
 High quality steel

Fine polished and bright burnished, for dazzle free working
 Ergonomically formed bicoloured hand-guard from
 conductive anti-slide material

The pliers of this program have been tested with good results
 by a well-known electronic group adequate to IEC 61340



CUTTING PLIERS

No.	Length		Finish	cutting capacity mm Ø			Weight g
	mm	inches		Copper- wire	Soft wire	Hard wire	

Mini side cutters EUROline-Conductive

with very slim, rounded head for finest operations

3-651-15	120	4 3/4	without side facee	1.2	0.6	-	55
3-651-15 DR	120	4 3/4	without side face, with retaining spring	1.2	0.6	-	55

Mini side cutters EUROline-Conductive

with very slim, pointed head for finest operations

3-652-15	120	4 3/4	without side face	1.0	0.6	-	55
3-653-15	120	4 3/4	without side face, with special flat cutting edge	1.0	0.6	-	55

Side cutters EUROline-Conductive

with slim, rounded head,
 available with or without side face

3-654-15	125	5	with side face	1.5	1.0	0.4	60
3-655-15	125	5	without side face	1.5	1.0	-	60

Side cutters EUROline-Conductive

with slim, pointed head,
 available with or without side face

3-656-15	125	5	with side face	1.2	1.0	0.4	60
3-657-15	125	5	without side face	1.2	1.0	-	60

End cutters EUROline-Conductive

extremely slim, without side face, for precision
 work at points difficult to reach

3-671-15	130	5 1/8	straight	0.6	-	-	60
3-672-15	130	5 1/8	cutting edge 20° angular	0.6	-	-	60

Top cutters EUROline-Conductive

extremely slim, without side face, head 45° angular,
 for flush cutting directly in front of and
 behind the components.

3-673-15	130	5 1/8	cutting edge inside	0.6	-	-	60
3-674-15	130	5 1/8	cutting edge outside	0.6	-	-	60