

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

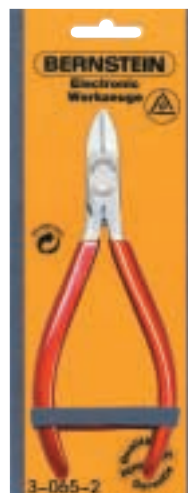
Additional insulation or other types of finish are indicated by a suffix after the article number

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

Box joint
Double leaf spring
High quality steel
Fine polished and bright burnished
For dazzle free working, high corrosion protection
Ergonomically formed bicoloured hand-guard from anti-slide material



ROUND, FLAT AND SNIPE NOSE PLIERS

No.	mm	length inches	finish	weight g
-----	----	------------------	--------	-------------

EUROline round nose pliers

extremely slim

3-681-14	130	5 1/8	plain jaws	60
----------	-----	-------	------------	----

EUROline flat nose pliers

extremely slim

3-682-14	130	5 1/8	plain jaws	60
----------	-----	-------	------------	----

EUROline snipe nose pliers

extremely slim

3-683-14	130	5 1/8	plain jaws	55
----------	-----	-------	------------	----



3-681-14



3-682-14



3-683-14

3-670 EUROline Set of pliers, 4 pieces

in black imitation leather case
with zip fastener and velvet grey lining

Weight: 390 g

Tool set:

No.	Description of individual tools
3-651-14	Mini side cutters , 120 mm, without side face, for soft wire up to 0.6 mm, copper wire up to 1.2 mm
3-672-14	End cutters , 130 mm, cutting edge 20° angular, for copper wire up to 0.6 mm
3-682-14	Flat nose pliers , 130 mm, plain jaws
3-683-14	Snipe nose pliers , 130 mm, plain jaws

