

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 guaranted tools. Defective pliers will be replaced if they contain material or production defects.

#### Special design features

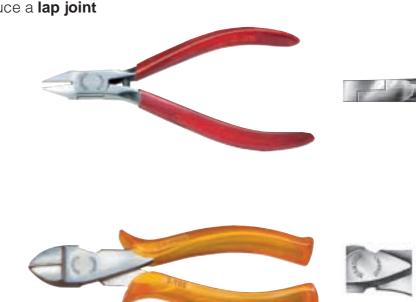
Most BERNSTEIN pliers for electronic engineers are produced with a **box joint**.



As a result of this expensive design, optimum parallel guiding edges is obtained and the service lifes 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 with transparent hand-guard (=BERNSTEINIT-insulation) with transparent or coloured insulation with conductive black hand-guard with yellow-grey hand-guard	without -1 -2 -13 -20
nickel-plated with transparent hand-guard (=BERNSTEINIT-insulation) with coloured hand-guard insulation with coloured insulation	-3 -4 -5 -6
steel-polished with coloured hand-guard insulation with coloured insulation with conductive black hand-guard  burnished with coloured insulation	-8 -9 -13 -10 -12
bright-burnished, fine-polished with yellow-grey hand-guard with conductive black-yellow hand-guard	-14 -15
Safety insulation  VDE-safety insulation two-colour multilayered insulation	-VDE -VDE
ESD/EGB-insulations conductive black hand-guard conductive black-yellow hand-guard	-13 -15

Only the finishes indicated in the discriptions 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.









# SPECAIL 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



3-682-14

# ROUND, FLAT AND SNIPE NOSE PLIERS

No.	len		finish	weight
	mm	inches		g

#### **EUROline round nose pliers**

extremely slim

3-681-14 130 5 <sup>1</sup>/<sub>8</sub> plain jaws 60

## 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 <sup>1</sup>/<sub>8</sub> plain jaws 55

### 3-670 EUROline Set of pliers, 4 pieces

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

Weight: 390 g



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	<b>End cutters,</b> 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

