

**Weidmüller's assortment of ESD pliers: safe, precise tools for working on sensitive electronics. Special material used for the handles avoids electrostatic charges.**

***Weidmüller is now extending its famously comprehensive programme of tools by adding a high-quality range of precision ESD pliers (ESD = electrostatic discharge). The assortment consists of ESD diagonal cutters with oval or tapered head, ESD oblique cutters, ESD flat-nose pliers and ESD snipe-nose pliers. All pliers are designed with SSD/ESD safe, two-coloured, two-component plastic grips. The material used for the handle grips fulfil all requirements for hand tools in relation to SSD protection (SSD = Static Sensitive Devices). All of Weidmüller's ESD pliers have ESD clearly printed on them to make them distinguishable from other pliers. The ESD pliers have been designed and constructed for working with electronics – electronic circuitry / components – and tasks in precision mechanics. The 120-mm long ESD pliers are available individually or as a 4-piece set – diagonal cutters with tapered head, oblique cutters, flat-nose pliers and snipe-nose pliers. ESD pliers are not suitable for working on live components or energised sub-assemblies.***

The danger for electronics from electrostatic discharges (ESD) should not be underestimated. The transfer or discharge of electrostatic charges can cause considerable damage. Potentials of less than 100 V are sufficient to damage sensitive equipment (Electrostatic Discharge Sensitive Devices = ESDS).

Humans do not feel ESD with a voltage below 2000 V. As well as an electrostatic-free work place, specially designed tools are necessary when working with electrostatic-discharge sensitive devices and components.

Weidmüller's assortment of ESD pliers has been designed accordingly: the materials used for the handle grips of the ESD pliers contain special additives that exhibit low conductance properties and safely discharge accumulating electrostatic charges. Working with ESD pliers is the only way to guarantee that sensitive electronics will not be destroyed and ensure that the relevant standards and regulations are adhered to (compare IEC TR 61 340-5, DIN EN 61 340-5, SP Method 2472). The ESD pliers are not suitable

for working on live parts or components.

Thanks to their compact dimensions, ESD electronics pliers are particularly suitable for working on electronics components. A spring mechanism for opening the pliers allows delicately skilful – as well as single-handed and fast – working practises. They are suitable for use in small- and medium-batch series production work as well as for testing and repairing tasks. In general, flat-nose and snipe-nose pliers belong to the so-called gripping pliers and are used for gripping, holding and bending as well as for precision positioning and adjusting of components, conductors and cables.

The handles of Weidmüller's ESD pliers have two-component plastic grips. The stable core of the handles is combined with a wide, soft and slip-resistant gripping surface. The ergonomic design of the handles ensures that working is essentially fatigue-free. The force is transferred to a large contact surface allowing the pressure to be distributed accordingly. The pliers themselves have a highly polished steel surface. Tried and tested, their microscopically fine steel surface is distinguished by a safe, environmentally friendly finish. There is no possibility of flaking chrome endangering circuits or sensitive components.

All of Weidmüller's ESD diagonal cutters are designed to meet the highest cutting demands. The assortment covers a wide range of applications.

- Electronic ESD diagonal cutters with oval head
  - hard wire (spring wire / steel nails): Ø 0.4 mm / 26 AWG
  - medium hard wire (iron / nails): Ø 1.0 mm / 18 AWG
  - soft wire (copper / aluminium): Ø 1.5 mm / 15 AWG
- Electronic ESD diagonal cutters with tapered head
  - medium hard wire (iron / nails): Ø 0.8 mm / 20 AWG
  - soft wire (copper / aluminium): Ø 1.5 mm / 15 AWG
- Electronic ESD oblique cutters
  - hard wire (spring wire / steel nails): Ø 0.6 mm / 22 AWG
  - medium hard wire (iron / nails): Ø 1.0 mm / 18 AWG
  - soft wire (copper / aluminium): Ø 1.2 mm / 16 AWG

**Key word: Weidmüller's ESD pliers**

## Captions:

**Fig. 1: Weidmüller's assortment of ESD pliers: safe, precise aids when working on sensitive electronics. Special materials used for the handles avoid electrostatic charges.**

*Fig. No.: Sä 270802 D*

**Fig. 2: Weidmüller's ESD pliers in a set. The 4-piece set consists of ESD diagonal cutters with tapered head, ESD oblique cutters, ESD flat-nose pliers and ESD snipe-nose pliers.**

*Fig. No.: Sä 270803 D*

**Fig. 3: Weidmüller's ESD pliers – As well as an electrostatic-free work place, specially designed tools are necessary when working with electrostatic-discharge sensitive devices and components.**

*Fig. No.: Sä 270808 D*