

DIN ISO 9655

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Supersedes
DIN ISO 9655:1994-09

**Pliers and nippers for electronics –
Single-purpose pliers –
Pliers for gripping and manipulating (ISO 9655:2004)
English version of DIN ISO 9655:2006-09**

Elektronikzangen –
Einzweckzangen –
Greifzangen (ISO 9655:2004)
Englische Fassung DIN ISO 9655:2006-09

Document comprises 8 pages

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National foreword

This standard has been prepared by Technical Committee ISO/TC 29 "Small tools", Subcommittee SC 10 "Assembly tools for screws and nuts, pliers and nippers".

The responsible German body involved in its preparation was the *Normenausschuss Werkzeuge und Spannzeuge* (Tools and Clamping Devices Standards Committee), Technical Committee NA 121-09-01 AA *Zangen*.

The DIN Standards corresponding to the International Standards referred to in clause 2 of the ISO Standard are as follows:

ISO 9656 DIN ISO 9656
 ISO 9657 DIN ISO 9657

Amendments

This standard differs from DIN ISO 9655:1994-09 as follows:

- a) The content of the standard has been updated.
- b) A new clause 4 "Designation" has been included.
- c) A new clause 5 "Marking" has been included.
- d) The standard has been editorially revised.

Previous editions

DIN ISO 9655: 1994-09

National Annex NA
(informative)

Bibliography

DIN ISO 9656, *Pliers and nippers for electronics — Test methods*

DIN ISO 9657, *Pliers and nippers for electronics — General technical requirements*

Pliers and nippers for electronics — Single-purpose pliers — Pliers for gripping and manipulating

1 Scope

This International Standard specifies the principal dimensions of single-purpose pliers for electronics for gripping and manipulating.

The test methods for checking their proper functioning are given in ISO 9656. The general technical requirements are given in ISO 9657.

The pliers illustrated in this International Standard are only examples and are not intended to affect the manufacturer's design.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9656, *Pliers and nippers for electronics — Test methods*

ISO 9657, *Pliers and nippers for electronics — General technical requirements*

3 Dimensions

3.1 Round nose pliers

The principal dimensions of round nose pliers are shown in Figure 1 and given in Table 1.

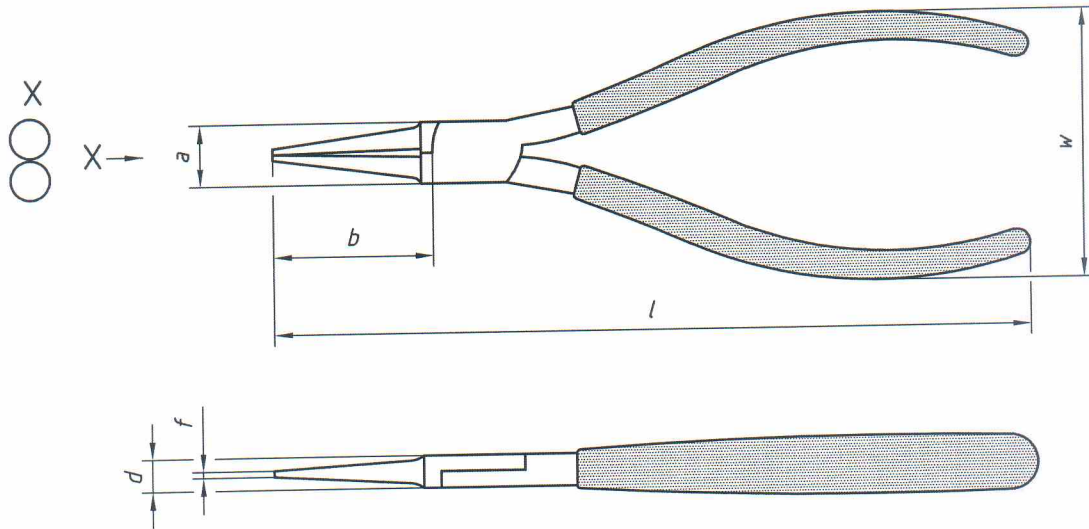


Figure 1 — Round nose pliers

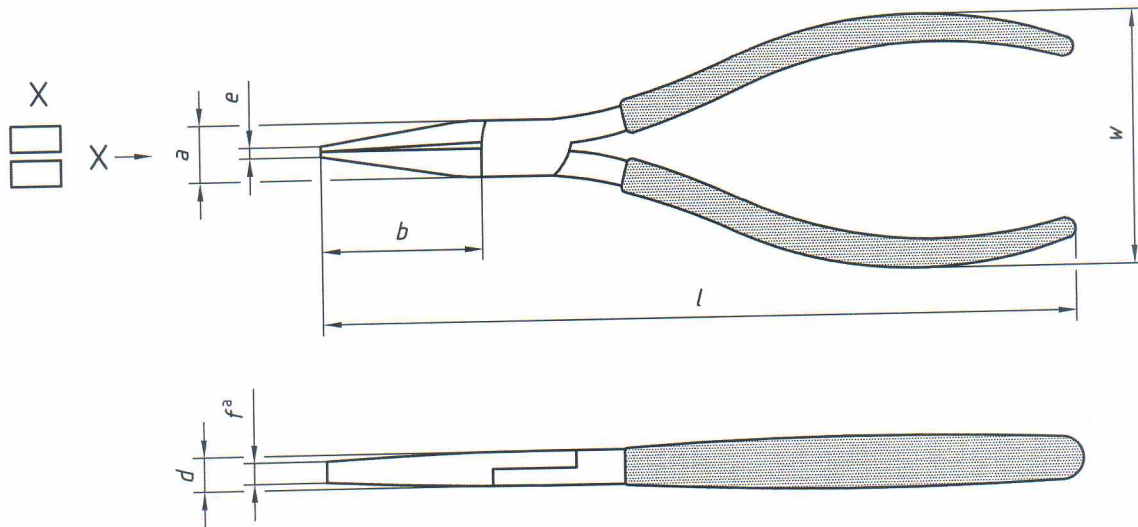
Table 1 — Round nose pliers, principal dimensions

Dimensions in millimetres

Length of jaws	l	a max.	b	d max.	f max.	w ± 5
Short jaws	112 ± 7	10	25 max.	6,5	0,8	48
	125 ± 8	13	30 max.	8	1,5	50
Long jaws	125 ± 8	13	30 min.	8	1,5	50
	140 ± 9	14	34 min.	10	2	50

3.2 Flat nose pliers

The principal dimensions of flat nose pliers are shown in Figure 2 and given in Table 2.



a $f \leq d$

Figure 2 — Flat nose pliers

Table 2 — Flat nose pliers, principal dimensions

Dimensions in millimetres

Length of jaws	l	a max.	b	d max.	e max.	f min.	w ± 5
Short jaws	112 ± 5	10	25 max.	6,5	1,8	1,8	48
	125 ± 7	13	30 max.	8	2,2	2,2	50
Long jaws	125 ± 7	13	30 min.	8	2,2	2,2	50
	140 ± 8	14	34 min.	10	2,8	2,8	50

3.3 Snipe nose pliers

The principal dimensions of snipe nose pliers are shown in Figure 3 and given in Table 3.

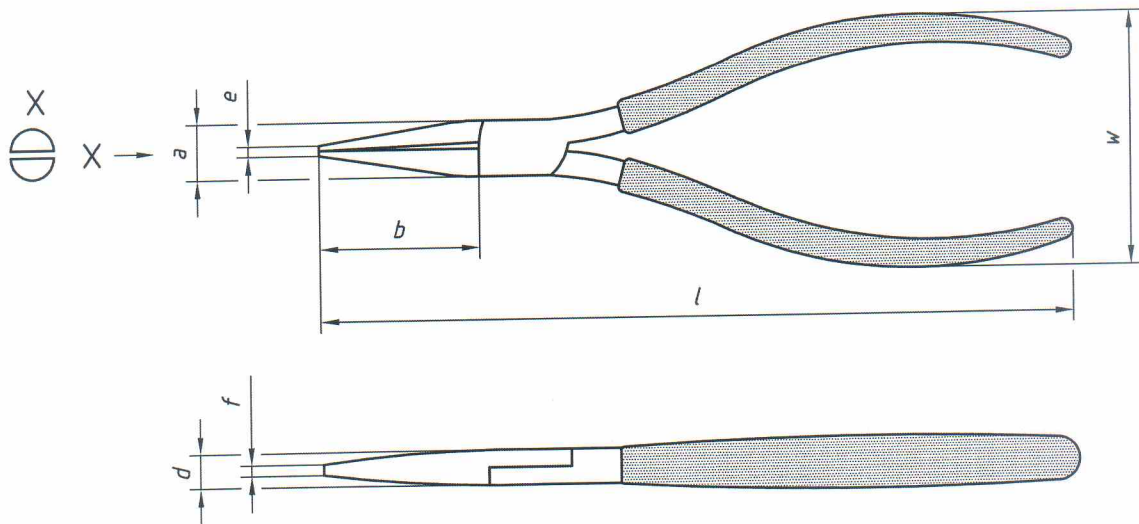


Figure 3 — Snipe nose pliers

Table 3 — Snipe nose pliers, principal dimensions

Dimensions in millimetres

Length of jaws	l	a max.	b	d max.	e max.	f max.	w ± 5
Short jaws	112 ± 5	10	25 max.	6,5	1,8	1,8	48
	125 ± 7	13	30 max.	8	2,2	2,2	50
Long jaws	125 ± 7	13	30 min.	8	2,2	2,2	50
	140 ± 7	14	34 min.	10	2,8	2,8	50

4 Designation

EXAMPLE 1 Round nose pliers, number 143 in accordance with ISO 8979, with a nominal length $l = 125$ mm and short jaws (S) are designated as follows:

Round nose pliers 143 - ISO 9655 - 125 - S

EXAMPLE 2 Flat nose pliers, number 141 in accordance with ISO 8979, with a nominal length $l = 140$ mm and long jaws (L) are designated as follows:

Flat nose pliers 141 - ISO 9655 - 140 - L

EXAMPLE 3 Snipe nose pliers, number 142 in accordance with ISO 8979, with a nominal length $l = 112$ mm and short jaws (S) are designated as follows:

Snipe nose pliers 142 - ISO 9655 - 112 - S

5 Marking

Marking shall be in accordance with ISO 9657.

Bibliography

- [1] ISO 8979, *Pliers and nippers for electronics — Nomenclature*