

The versions – thread inserts for expansion anchoring **Expansionsert 1**

Installation method thermal installation



The advantages

- Universal thread insert for thermoset and thermoplastic components
 - High-strength threads by expansion anchoring
 - Quick, cost-effective installation
- Material: Cu Zn 38 Pb 2 (EU 2000/53 compliant)

Principle



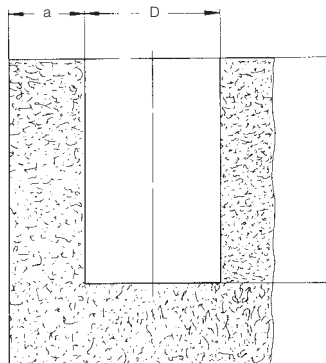
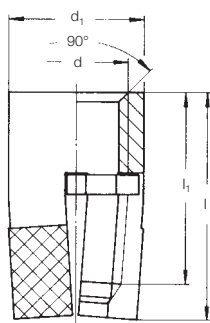
The **EXPANSIONSERT 1** thread insert consists of a cross-slotted basic body with internal thread, which has an external diamond knurl, and an spreader plate. When the thread insert is installed in the mounting hole, the diamond knurl part is expanded by the spreader plate which is pressed down. As a result, it is anchored in the wall of the hole.

Installation method self-tapping insertion

Technical data

Type 0230
EXPANSIONSERT 1 standard

Mounting hole[®]



For installation tools and machines, see pages 39 – 40

d	Order No	d ₁	l	l _{1 min.}	D ^{+0.1} ®	L	a _{min.}	b _{min.}
M 2.5	0230 025 0065	4.0	6.5	4.0	4.0	6.5	2.4	3.2
M 3	0230 903 0001	4.0	6.5	4.0	4.0	6.5	2.4	3.2
	0230 003 0065	4.8	6.5	4.0	4.8	6.5	2.9	3.2
M 3.5	0230 035 0008	4.8	8.0	5.0	4.8	8.0	2.9	4.0
M 4	0230 004 0095	5.5	9.5	6.5	5.5	9.5	3.3	4.7
	0230 004 0008	5.5	8.0	5.0	5.5	8.0	3.3	4.0
M 5	0230 005 0011	6.5	11.0	7.5	6.5	11.0	3.9	5.5
	0230 005 0008	6.5	8.0	4.5	6.5	8.0	3.9	4.0
M 6	0230 006 0125	8.0	12.5	8.5	8.0	12.5	4.8	6.2
M 8	0230 008 0016	11.0	16.0	11.0	11.0	16.0	6.6	8.0

Metric ISO thread according to DIN 13-6H. Technical modifications reserved. Minimum quantity on request. All dimensions in mm.

® Guide values: depend on moulding material, may have to be changed after setting trials.

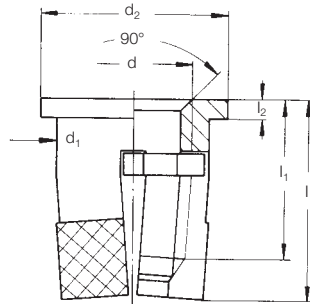
Other sizes and special designs on request.

Installation method expansion anchoring

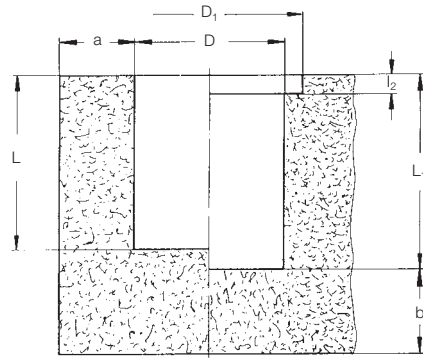
The versions – thread inserts for expansion anchoring **Expansionsert 1**

Technical data

Type 0231[Ⓞ]
EXPANSIONSERT 1 flange



Mounting hole[Ⓞ]



For installation tools, see pages 39 – 40

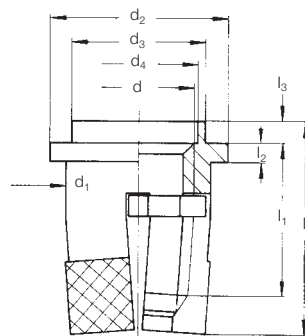
d	Order No	l	d ₁	d ₂	l _{1 min.}	l ₂	D ^{+0.1} Ⓞ	D ₁ ^{+0.2}	L	L ₁	a _{min.}	b _{min.}
M 2.5	0231 025 0006	6.0	4.0	5.5	3.6	0.8	4.0	5.5	5.2	6.0	2.4	3.2
M 3	0231 003 0006	6.0	4.8	6.3	3.5	0.8	4.8	6.3	5.2	6.0	2.9	3.2
M 3.5	0231 035 0075	7.5	4.8	6.3	4.7	0.8	4.8	6.3	6.7	7.5	2.9	4.0
M 4	0231 004 0075	7.5	5.5	7.0	4.4	0.8	5.5	7.0	6.7	7.5	3.3	4.7
M 5	0231 005 0085	8.5	6.5	8.0	5.0	0.8	6.5	8.0	7.7	8.5	3.9	5.5
M 6	0231 006 0011	11.0	8.0	10.0	7.0	0.8	8.0	10.0	10.2	11.0	4.8	6.2

Metric ISO thread according to DIN 13-6H.
Delivery conditions according to DIN 267.
Technical modifications reserved.
Minimum quantity on request.

Ⓞ Guide values: depend on moulding material, may have to be changed after setting trials.
The flange has a large contact surface and thus reduces surface pressure.

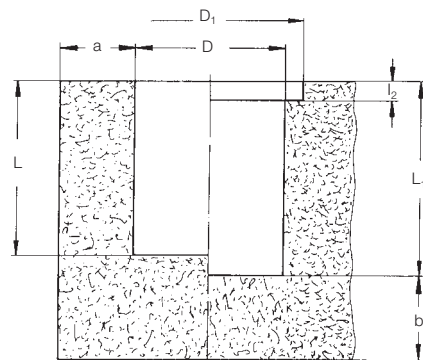
Other sizes and special designs on request.

Type 0232
EXPANSIONSERT 1 clinch



The clinched edge is designed to fasten contact components and cable eyes as well as to serve as a fixing aid for a cover part to be applied.

Mounting hole[Ⓞ]
(same dimensions as type 0231)



For installation tools, see pages 39 – 40

d	Order No	l	d ₁	d ₂	d _{3 max.}	d ₄	D ^{+0.1} Ⓞ	D ₁ ^{+0.2}	l _{1 min.}	l ₂	l ₃
M 2.5	0232 025 0007	7.0	4.0	5.5	3.6	2.8	4.0	5.5	3.6	0.8	1.0
M 3	0232 003 0007	7.0	4.8	6.3	4.1	3.3	4.8	6.3	3.5	0.8	1.0
M 3.5	0232 035 0085	8.5	4.8	6.3	4.6	3.8	4.8	6.3	4.7	0.8	1.0
M 4	0232 004 0085	8.5	5.5	7.0	5.1	4.3	5.5	7.0	4.4	0.8	1.0
M 5	0232 005 0095	9.5	6.5	8.0	6.1	5.3	6.5	8.0	5.0	0.8	1.0
M 6	0232 006 0012	12.0	8.0	10.0	7.1	6.3	8.0	10.0	7.0	0.8	1.0

Metric ISO thread according to DIN 13-6H. Ⓞ Guide values: depend on moulding material, may have to be changed after setting trials.
Technical modifications reserved.
Minimum quantity on request.
All dimensions in mm.

Other sizes and special designs on request.