

The versions – thread inserts for expansion anchoring **SPREDSERT® 1**

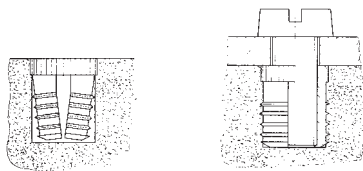


The advantages

- For thermoplastic parts
- Knurled flange and anchor rings ensure high degree of security against twisting and tensile load
- Screw locking

Material: Cu Zn 38 Pb 2 (EU 2000/53 compliant)

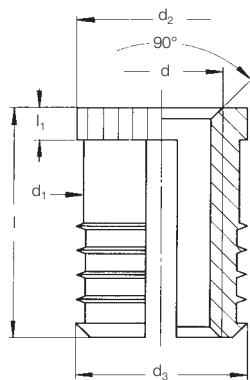
Principle



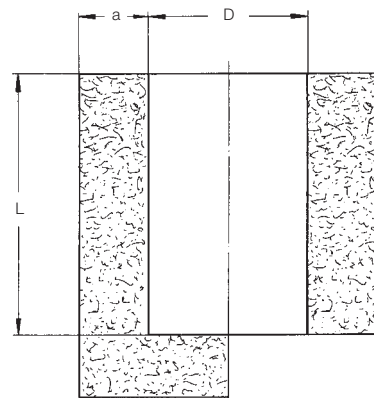
The **SPREDSERT® 1** is inserted into the mounting hole until the retaining flange is completely anchored in the plastic material. In that process, the slotted area is compressed. The radially secured **SPREDSERT® 1** is expanded by the screw so that the anchor rings penetrate the plastic material and ensure the tight-fit of the thread insert. In this process, the screw is locked. For the additional expansion force, the tightening torque must be increased by 10 %.

Technical data

Type 0831 – 0833



Mounting hole[Ⓢ]



For installation tools and machines, see pages 39 – 40

d	Order No	Number of anchor rings	d ₁	d ₂	d ₃	l [Ⓢ]	l ₁	D ^{+0.1Ⓢ}	L _{min.}	a _{min.}
M 2	0832 102 0004	3	3.15	3.7	3.6	4.0	0.6	3.2	4.5	2.0
M 2.5	0832 125 0005	3	3.9	4.5	4.4	5.0	0.75	4.0	5.5	2.5
M 3	0832 103 0005	3	3.9	4.5	4.4	5.0	0.75	4.0	5.5	3.0
M 3.5	0832 135 0065	3	4.7	5.3	5.2	6.5	1.0	4.8	7.1	3.2
M 4	0833 104 0008	4	5.35	6.0	5.9	8.0	1.3	5.5	8.7	3.5
M 5	0833 105 0095	5	6.35	7.0	6.9	9.5	1.3	6.5	10.3	4.0
M 6	0831 106 0011	5	7.85	8.5	8.4	11.0	2.0	8.0	12.0	5.0
M 8	0831 108 0013	5	9.5	9.95	9.9	13.0	2.0	9.6	14.0	7.0

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

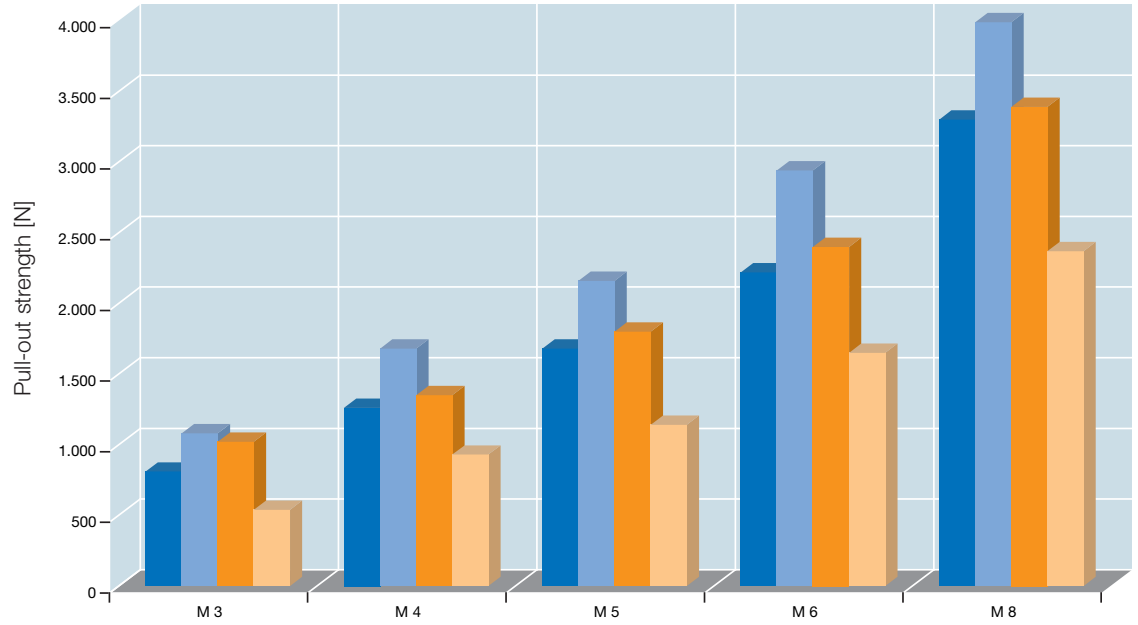
Ⓢ Guide values: depend on moulding material, may have to be changed after setting trials.
Ⓢ Screw contact length = min. insert length (l) + 1p (pitch)

Other sizes and special designs on request.

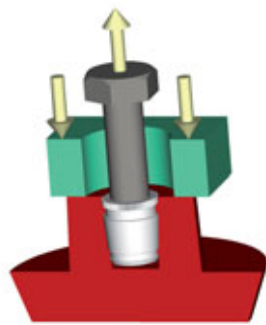
The versions – thread inserts for expansion anchoring **SPREDSERT® 1 + 2**

Technical data

Pull-out values SPREDSERT® 1 + 2 / M 3 to M 8



	M 3	M 4	M 5	M 6	M 8
■ ABS FA [N]	810	1,260	1,680	2,220	3,300
■ PC FA [N]	1,080	1,680	2,160	2,940	3,990
■ PA FA [N]	1,020	1,350	1,800	2,400	3,390
■ PE/PP FA [N]	540	930	1,140	1,650	2,370



Pull-out strength (FA[N])

Technical notes

Indicated values are guide values. We recommend an installation test for the respective application. To be on the safe side, for fibre-reinforced plastics, the strengths of the non-reinforced material should be assumed. If you use brass thread inserts in plastics susceptible to stress cracks (e.g. polycarbonate), we recommend additional surface treatment of the thread inserts (nickel plating or surface coating as required). Strength values for other thread inserts on request.