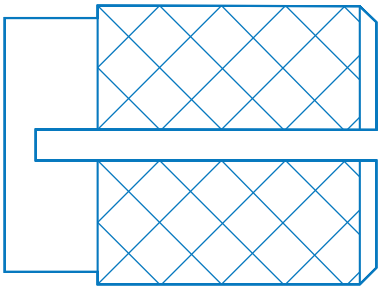
PSM International
GLOBAL FASTENING SOLUTIONS

BANC-LOK® INSERTS



Ideal for use in hard thermosetting plastics, Banc-Lok are press-in expansion inserts which, due to Banc-Lok diamond knurl pattern, give minimum penetration of the sides of the hole without sacrificing pull-out resistance.

ADVANTAGES

- EASY PRESS IN INSERTION
- SELF LOCKING ACTION ON THE SCREW - IDEAL WHERE VIBRATION IS PRESENT
- SUITABLE FOR MOST THERMOSETTING PLASTICS

DESIGN GUIDE

HOLE PREPARATION

Molded holes are recommended wherever possible. The taper on a molded hole should be 1° inclusive and the hole diameter recommended should apply at the point reached by the bottom of the insert. The top of the hole should not be chamfered or counterbored and care must be taken to avoid bell mouthing. Drilled holes may be used but performance may be reduce when compared with a molded hole. Hole diameter tolerance: -0.00 +0.10mm.

SELECTION OF INSERT TYPE

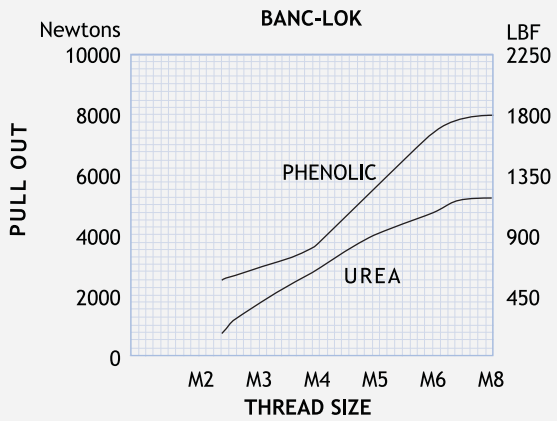
Headed inserts may be used for improved electrical contact or to fill gaps which would result in a jack-out condition. Alternatively a reverse headed type may be used with the head on the back of the moulding. This head then gives extra support for resistance to jack-out loads. These inserts are not recommended for use in thermosetting polyesters with high filler content (DMC, SMC, BMC), for applications using these materials we recommended Screw-Sert.

INFLUENCE OF SCREW DIMENSIONS

It is important that the fixing screw fully penetrates the insert in order to achieve full expansion. Screw length should therefore be calculated to ensure that this condition is met before the final clamp torque is applied.

PERFORMANCE DATA

The complexity of materials and variations in service conditions make it impossible to detail fastener performance for specific applications. The chart gives a general guide and shows the relative performance of the insert in the range.



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UNI-BIS industry solutions

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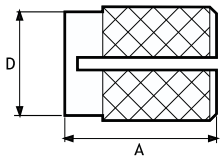
TECHNICAL DATA

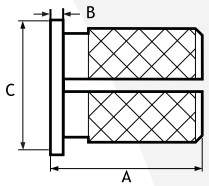
STANDARD MATERIAL: BRASS (B)
Other materials possible on quotation

INSERTS



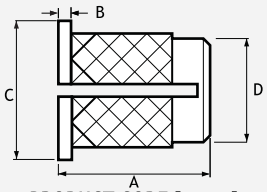
PRODUCT CODE [N41]

HEADED INSERTS



PRODUCT CODE [N42]

REVERSE INSERTS



PRODUCT CODE [N42R]

DIMENSIONS

ISO METRIC

Unit: Millimetres

Thread Size	Insert Length A	Preferred Other Length A	Head Height B	Head ø C	Insert ø D	Rec.Hole Size - 0.00 + /0.10	Min. Wall Thickness
M2	3.9	-	0.43	4.8	3.2	3.2	2.4
M2.5	4.7	-	0.51	5.5	4.0	4.0	3.2
M3	4.7	3.5	0.51	5.5	4.0	4.0	3.2
M3.5	6.3	3.5	0.66	6.4	4.7	4.8	3.6
M4	7.9	5.0	0.82	7.1	5.5	5.6	4.0
M5	9.4	6.0	0.99	7.9	6.3	6.4	4.8
M6	12.6	9.5	1.25	9.5	7.9	8.0	6.0
M8	12.6	9.5	1.25	11.1	9.5	9.6	7.0

Other lengths possible on quotation.

UNIFIED

Unit: Inches

Thread Size	Insert Length A	Preferred Other Length A	Head Height B	Head ø C	Insert ø D	Rec.Hole Size **-0.000 +0.004**	Min. Wall Thickness
2-56	.155	-	.017	.187	.124	.126	.094
4-40	.186	.138	.020	.218	.156	.157	.126
6-32	.249	.138	.026	.250	.186	.189	.142
8-32	.312	.197	.032	.281	.217	.220	.157
10-24	.371	.236	.039	.312	.249	.252	.189
10-32	.371	.236	.039	.312	.249	.252	.189
1/4-20	.497	.374	.049	.375	.311	.315	.236
1/4-28	.497	.374	.049	.375	.311	.315	.236
5/16-18	.497	.374	.049	.437	.374	.378	.276
5/16-24	.497	.374	.049	.437	.374	.378	.276

Other lengths possible on quotation.

HOW TO SPECIFY

	N41	N42	N42R
PRODUCT CODE	N41-B-M3	N42-B-M3	N42R-B-M3
MATERIAL CODE	N41-B-M3	N42-B-M3	N42R-B-M3
THREAD SIZE	N41-B-M3	N42-B-M3	N42R-B-M3
PREFERRED OTHER LENGTH	N41-B-M3-3.5	N42-B-M3-3.5	N42R-B-M3-3.5