



DAMIDBOND

Round enamelled winding wire of copper, bondable, class 200

Product name

DAMIDBOND - Grade 1B
DAMIDBOND - Grade 2B

UL approval

DAMIDBOND, E101843, MW 102-C

Specification

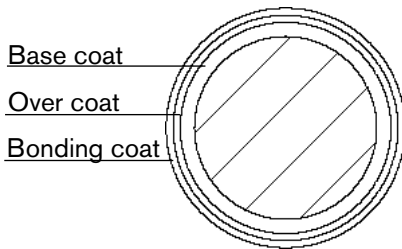
IEC 60317-38
NEMA MW 102 - C

Class 200

Temperature index $\geq 200^{\circ}\text{C}$ as per IEC 60172
Heat shock $\geq 220^{\circ}\text{C}$

Insulation

Base coat: THEIC-modified polyester imide
Over coat: Polyamid-imide
Bonding coat: Modified aromatic polyamide



Properties

- Can be bonded with hot air or electric resistance heating at $180^{\circ}\text{C} - 220^{\circ}\text{C}$
- High re-softening temperature

Field of application

- Electric motors
- Hermetic compressors
- Solenoid coils
- Relay coils

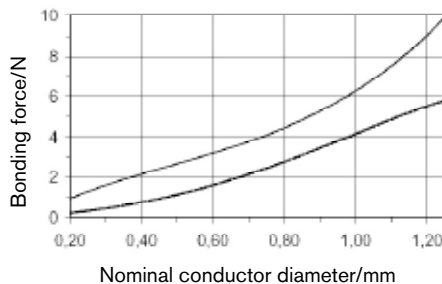
Dimension range

DAMIDBOND Grade 1B $0,200 \leq \varnothing \leq 1,250 \text{ mm}$
DAMIDBOND Grade 2B $0,200 \leq \varnothing \leq 1,250 \text{ mm}$

Reels

Dimension/mm	Standard reels
$0,200 \leq \varnothing < 0,630$	200, 250/400
$0,630 \leq \varnothing \leq 1,250$	250, 250/400

Bonding force



Properties for DAMIDBOND, independent of dimension

Characteristics	Test method	Property values
Thermal properties		
Heat shock	IEC 60851 - 6.3	$\geq 220^{\circ}\text{C}$, $1 \times \varnothing$
Cut-through	IEC 60851 - 6.4	$\geq 320^{\circ}\text{C}$
Temperature index	IEC 60851 - 6.5	$\geq 200^{\circ}\text{C}$
Electrical properties		
Conductor resistance (R)	IEC 60851 - 5.3	$0,01709 \Omega\text{mm}^2/\text{m}$
Conductivity	$1/R$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Chemical properties		
Resistance to solvent	IEC 60851 - 4.3	15 (5H)
Resistance to refrigerents	IEC 60851 - 4.4	$< 0,1\%$
Resistance to transformer oil/water	IEC 60851 - 4.6.1	$< 30\%$

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Properties specific dimension

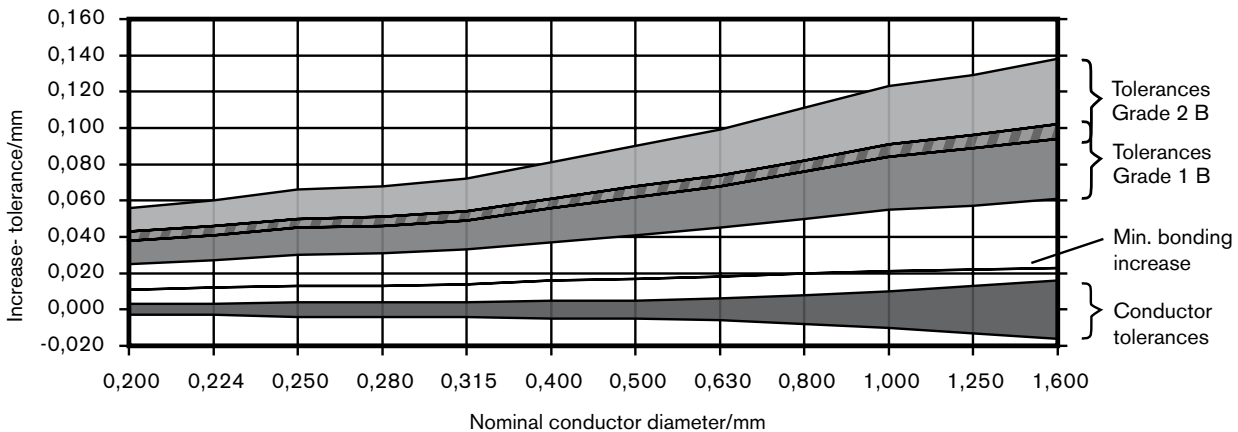
Typical test results compared to the IEC standard values

Dimension mm	1) Elongation at fracture		2) Mandrel winding test		3) Electrical breakdown voltage	
	%		%		kV	
	IEC	^{4)DT}	IEC	^{4)DT}	IEC	^{4)DT}
Selection of types						
0,200 - Grade 1B	21	40	0	15	1,8	10,0
0,200 - Grade 2B	21	40	0	15	3,5	10,0
0,500 - Grade 1B	25	43	0	15	2,4	10,0
0,500 - Grade 2B	25	44	0	15	4,6	10,0
0,710 - Grade 1B	28	44	0	10	2,6	10,0
0,710 - Grade 2B	28	45	0	10	4,8	10,0
1,180 - Grade 1B	31	45	0	5	2,7	10,0
1,180 - Grade 2B	31	45	0	5	5,0	10,0

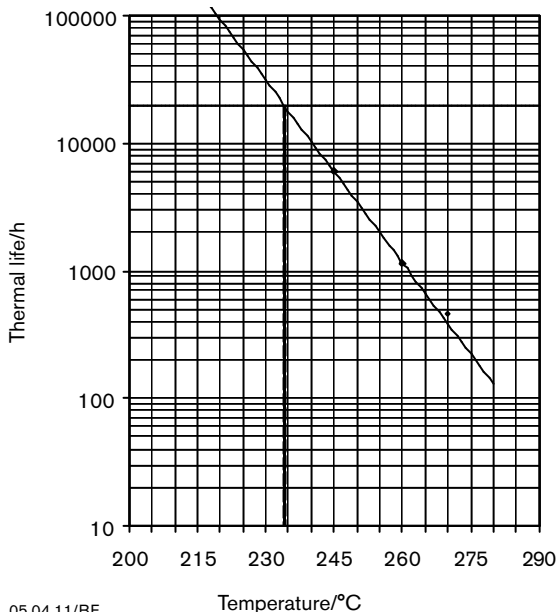
Comments:

¹⁾ IEC 60851 - 3.2 Percentage elongation at fracture of conductor. ²⁾ IEC 60851 - 3.3 Refers to stretch of the wire before winding over its own diameter. ³⁾ IEC 60851 - 5.3 The voltage is measured between a twisted pair of enamelled conductors. ⁴⁾ DT = Dahréntråd.

Dimensions - Tolerances



Temperature index according to IEC 60172



The technical data included is up to date at the time of printing. Dahréntråd reserve the right to make any amendments deemed necessary.

dahréntråd

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