



DASOL

Round enamelled winding wire of copper, solderable, class 155

Product name

DASOL - Grade 1
DASOL - Grade 2

UL approval

DASOL, E101843, MW 79-C

Standard

IEC 60317-20
NEMA MW 79-C

Class 155

Temperature index $\geq 155^{\circ}\text{C}$ as per IEC 60172
Heat shock $\geq 175^{\circ}\text{C}$

Insulation

Solderable coat: Modified polyurethane

Properties

- Directly solderable
- Short solder time

Field of application

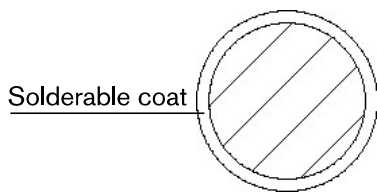
- Small transformers
- Solenoid coils
- Relays

Dimension range

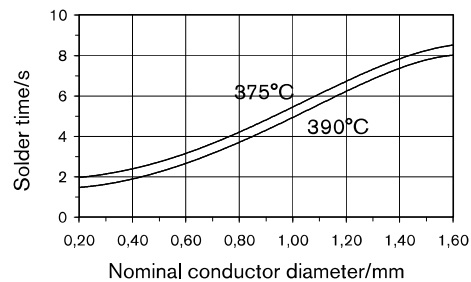
DASOL Grade 1 $0,200 \leq \varnothing \leq 1,400$ mm
DASOL Grade 2 $0,200 \leq \varnothing \leq 1,400$ mm

Reels

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



Approximate solder time



Properties for DASOL, independent of dimension

Characteristics	Test method	Property value
Thermal properties		
Heat shock	IEC 60851 - 6.3	$\geq 175^{\circ}\text{C}$, $1 \times \varnothing$
Cut-through	IEC 60851 - 6.4	$\geq 220^{\circ}\text{C}$
Temperature index	IEC 60851 - 6.5	$\geq 155^{\circ}\text{C}$
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 solvents	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

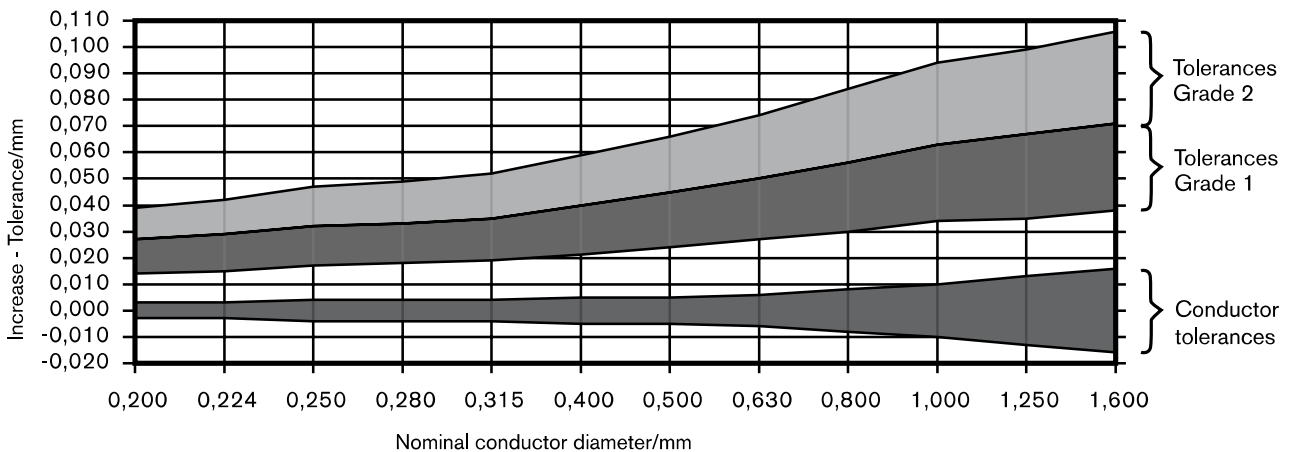
Dimension mm	1) Elongation at fracture		2) Electrical breakdown voltage	
	%		kV	
	IEC	³⁾ DT	IEC	³⁾ DT
0,200 - Grade 1	21	35	1,8	6,5
0,200 - Grade 2	21	35	3,5	8,5
0,315 - Grade 1	24	40	2,3	7,5
0,315 - Grade 2	24	40	4,4	9,5
0,500 - Grade 1	28	43	2,6	8,5
0,500 - Grade 2	28	43	4,8	10,0
0,630 - Grade 1	32	45	2,7	8,5
0,630 - Grade 2	32	45	5,0	10,0

Comments:

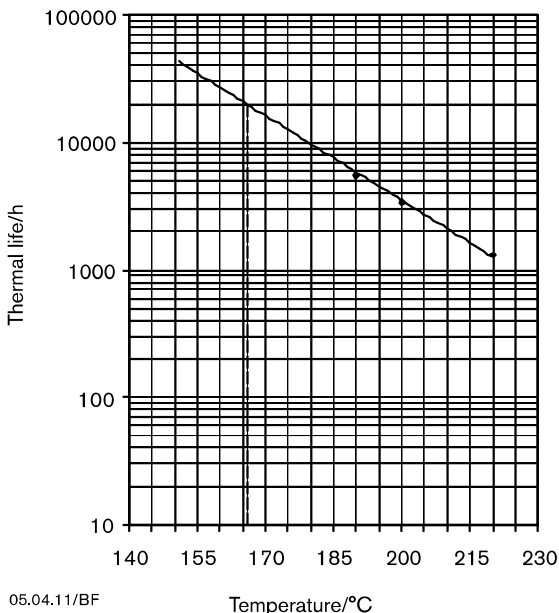
¹⁾ IEC 60851 - 3.2 Percentage elongation at fracture of conductor

²⁾ IEC 60851 - 5.3 The voltage is measured between a twisted pair of enamelled conductors ³⁾ 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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