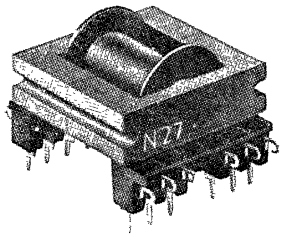


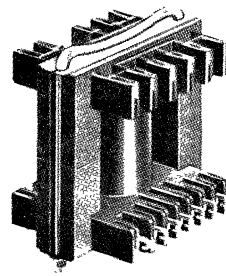
EC Cores

General

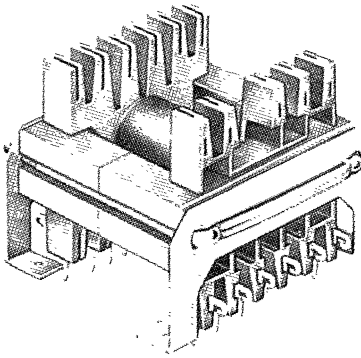
These E cores with round center leg provide a large space for the windings and permit even thick wires to be brought out conveniently. Owing to the large width for the winding good coupling between the windings is obtained. Coil formers with solder tags for vertical or horizontal magnetic axes are available.



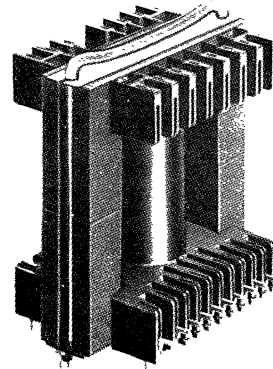
EC 35, magnetic axis horizontal



EC 41, EC 52
magnetic axis vertical



EC 41, EC 52, EC 70
magnetic axis horizontal

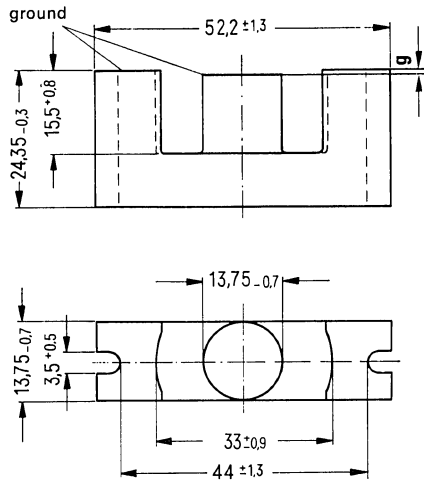


EC 70, magnetic axis vertical

Coil formers for EC cores

The coil formers, made of glass-fiber reinforced polyterephthalate, are flame-retardant in accordance with UL 94 V-0. They are available for the EC 35 core as horizontal version, for the EC 41, 52, and 70 cores also as vertical version with differing numbers of terminals (see following pages). Operating temperature range: between $-60\text{ }^{\circ}\text{C}/-76\text{ }^{\circ}\text{F}$ and $+120\text{ }^{\circ}\text{C}/+248\text{ }^{\circ}\text{F}$.

in accordance with IEC publication 647



Dimensions in mm

Magnetic characteristics (per set)

Core factor	$\Sigma l/A =$	0.58 mm ⁻¹
Effective length	$l_e =$	105 mm
Effective area	$A_e =$	180 mm ²
Min. core cross section ¹⁾	$A_{min} =$	134 mm ²
Effective volume	$V_e =$	18800 mm ³

Approx. weight 55 g/item

Accessories

Coil formers and mounting assembly

E cores are delivered individually according to the dimension "g" (shortened center leg). The tabulated A_L values apply to core sets comprising the indicated core and a core without shortened center leg (B66341-G0000).

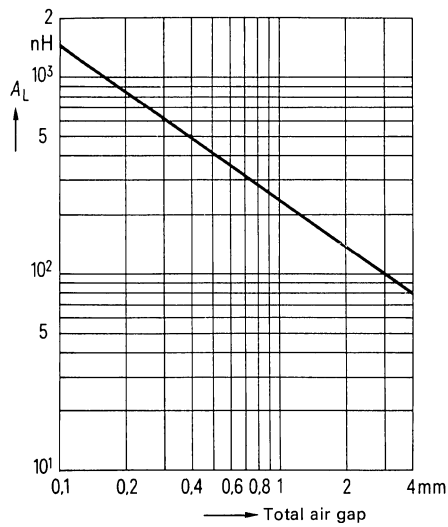
SIFERRIT material	Dimension "g"		A_L value nH	Effective permeability μ_e	Ordering code (PU: 200 items)
	mm	tolerance mm			
N 27	appr. 0	-	approx. 3400	approx. 1570	B66341-G0000-X127
	0.25	±0.03	approx. 725	approx. 335	B66341-G0250-X127
N 27	0.50	±0.05	approx. 420	approx. 194	B66341-G0500-X127
	1.00	±0.1	approx. 240	approx. 111	B66341-G1000-X127
	1.50	±0.1	approx. 175	approx. 81	B66341-G1500-X127

For power loss P_v and amplitude permeability μ_a refer to page 418.

¹⁾ Necessary for calculating the max. flux density
 ▼ to be preferred

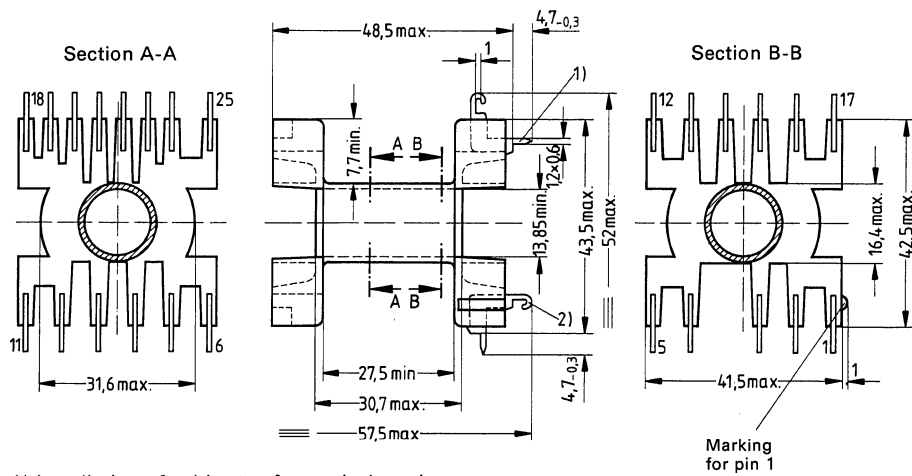
A_L value versus total air gap
for a set consisting of

- one core B66341-G0000 (g approx. 0)
- and
- one core B66341-G.... (g > 0)
- or
- two cores B66341-G.... (g > 0)



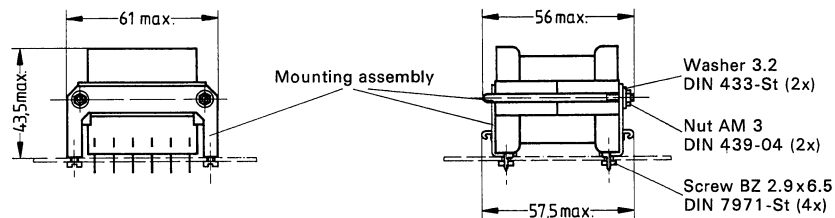
Coil former and mounting assembly B 66 276

Glass-fiber reinforced polyterephthalate, flame-retardant in accordance with UL 94 V-0. Horizontal or vertical versions with 11 or 14 solder terminals are available, as required. Permissible soldering temperature max. 400 °C/752 °F, 2 sec. For winding details refer to page 73.



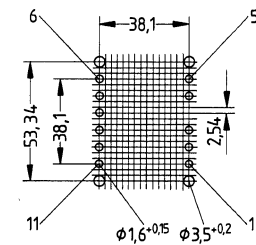
- 1) Installation of solder tag for vertical version
- 2) Installation of solder tag for horizontal version

Horizontal version: cores with accessories assembled

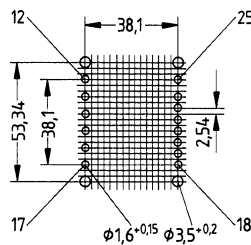


Hole arrangement, view in mounting direction

11 terminals

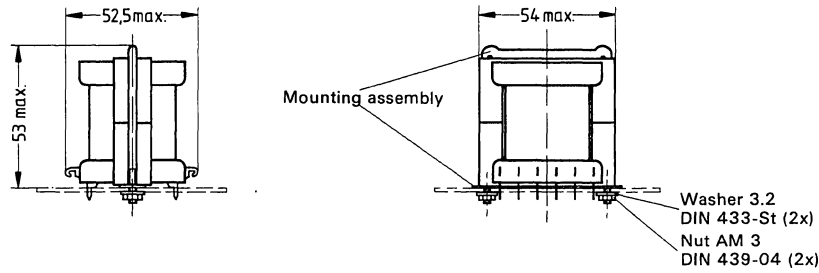


14 terminals

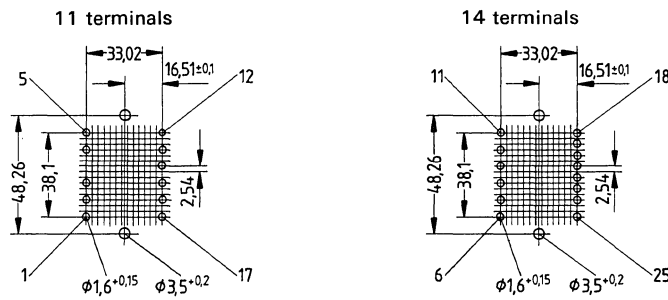


Dimensions in mm

Vertical version: cores with accessories assembled



Hole arrangements, view in mounting direction



Dimensions in mm

Coil former B 66 276

Useful winding cross section A_N mm ²	Average length of turn l_N mm	A_R value ¹⁾ $\mu\Omega$	Approx. weight g	Version	Number of terminals	Ordering code (PU: 100)
212	74	12.0	18	horizontal	11	B66276-A1001-T001
					14	B66276-A1002-T001
				vertical	11	B66276-A1011-T001
					14	B66276-A1012-T001

Mounting assembly B66276		Ordering code (PU: 100)
Horizontal	Complete mounting assembly with hex nuts and washers	B66276-B2001-X000
Vertical	Complete mounting assembly with hex nuts and washers	B66276-B2002-X000

¹⁾ $R_{Cu} = A_R \cdot N^2$ (dc resistance = $A_R \cdot \text{number of turns}^2$)
 ▼ to be preferred