

SMIT DRAAD

Enamelled rectangular copper wires IEC 60317-29

Introduction

The enamelled insulated copper wire is a fundamental part of a winding in every electrical machine or apparatus. Compared to fibrous insulations, enamelled copper offers a favorable space saving factor together with a high level of breakdown voltage.

Types of enamelled wire

Our range covers according to application.

- in machines and dry-type transformers SL-T: polyesterimide base enamel with polyamide-imide overcoat, temperature index 200°C.

Size range

Dimensions follow IEC recommendations in the first place, but non-standard sizes are available, especially for substantial quantities.

Width:	2 - 18 mm
Thickness:	1 - 5.6 mm
Ratio width/thickness:	1.25 - 12
Cross section:	3 - 85 mm ²

There are two grades of enamel increase

- Grade 1 : 0.06 - 0.11 mm
- Grade 2 : 0.12 - 0.17 mm

Deviations from standard-increase are possible upon request.

Properties of enamelled copper strip

Our strips fully meet the requirements of IEC in all respects and can be seen from the main properties given below:

Pencil hardness	SL-T 5H
Edgewise bend	3*W - O.K.
Breakdown voltage at elevated temp.	75% at 200°C
Temperature index	200°C
Heat-shock of bent strip	4* W at 220°C