SRI LANKA STANDARD 1082 Part 2.1 : 2009
IEC 60264-2-1: 1989 + A 1: 2003

SPECIFICATION FOR PACKAGING OF WINDING WIRES

PART 2.1: CYLINDRICAL BARRELED DELIVERY SPOOLS–BASIC DIMENSIONS

(First Revision)

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
SPECIFICATION FOR PACKAGING OF WINDING WIRES
PART 2.1: CYLINDRICAL BARRELED DELIVERY SPOOLS–BASIC DIMENSIONS
(First Revision)

SLS 1082 Part 2.1: 2009
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Sri Lanka.

Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This standard does not purport to include all the necessary provisions of a contract.

Sri Lanka Standard
SPECIFICATION FOR PACKAGING OF WINDING WIRES

PART 2.1: CYLINDRICAL BARRELLED SPOOLS – BASIC DIMENSIONS
(First Revision)

NATIONAL FOREWORD

This standard was approved by the Sectoral Committee on Electric Cables and Conductors and was authorized for adoption and publication as a Sri Lanka Standard by the Council of Sri Lanka Standards Institution on 2009-10-28.

This is the first revision of **SLS 1082 : Part 2.1 : 1989** and identical with **IEC 60264-2-1 :** Packaging of winding wires, Part 2 : Cylindrical barrelled spools - Basic dimensions, Edition 1.0 1989 -01 and Amd. No 1: 2003, published by the International Electrotechnical Commission (IEC).

Terminology and conventions

The text of the International Standard has been accepted as suitable for publication, without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards; attention is therefore drawn to the following:

a) Wherever the words “International Standard” appear referring to this standard they should be interpreted as “Sri Lanka Standard”.

b) Wherever the page numbers are quoted they are the page numbers of IEC standard.

c) The comma has been used as a decimal marker. In Sri Lanka Standards it is the current practices to use a full point on the base line as a decimal marker.

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NORME INTERNATIONALE
INTERNATIONAL STANDARD

CEI
IEC
60264-2-1

Première édition
First edition
1989-01

Conditionnement des fils de bobinage

Deuxième partie:
Bobines de livraison à fût de forme cylindrique
Section un – Dimensions de base

Packaging of winding wires

Part 2:
Cylindrical barrelled delivery spools
Section One – Basic dimensions

Numéro de référence
Reference number
CEI/IEC 60264-2-1: 1989

Numéros des publications

Depuis le 1er janvier 1997, les publications de la CEI sont numérotées à partir de 60000.

Publications consolidées

Les versions consolidées de certaines publications de la CEI incorporant les amendements sont disponibles. Par exemple, les numéros d'édition 1.0, 1.1 et 1.2 indiquent respectivement la publication de base, la publication de base incorporant l'amendement 1, et la publication de base incorporant les amendements 1 et 2.

Validité de la présente publication

Le contenu technique des publications de la CEI est constamment revu par la CEI afin qu'il reflète l'état actuel de la technique.

Des renseignements relatifs à la date de reconfirmation de la publication sont disponibles dans le Catalogue de la CEI.

Les renseignements relatifs à des questions à l'étude et des travaux en cours entrepris par le comité technique qui a établi cette publication, ainsi que la liste des publications établies, se trouvent dans les documents ci-dessous:

- **«Site web» de la CEI***
- **Catalogue des publications de la CEI**
  Publié annuellement et mis à jour régulièrement (Catalogue en ligne)*
- **Bulletin de la CEI**
  Disponible à la fois au «site web» de la CEI* et comme périodique imprimé

Terminologie, symboles graphiques et littéraux

En ce qui concerne la terminologie générale, le lecteur se reportera à la CEI 60050: *Vocabulaire Electrotechnique International* (VEI).

Pour les symboles graphiques, les symboles littéraux et les signes d'usage général approuvés par la CEI, le lecteur consultera la CEI 60027: *Symboles littéraux à utiliser en électrotechnique,* la CEI 60417: *Symboles graphiques utilisables sur le matériel. Index, relevé et compilation des feuilles individuelles,* et la CEI 60617: *Symboles graphiques pour schémas.*

* Voir adresse «site web» sur la page de titre.

Numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series.

Consolidated publications

Consolidated versions of some IEC publications including amendments are available. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

Validity of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information relating to the date of the reconfirmation of the publication is available in the IEC catalogue.

Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is to be found at the following IEC sources:

- **IEC web site***
- **Catalogue of IEC publications**
  Published yearly with regular updates (On-line catalogue)*
- **IEC Bulletin**
  Available both at the IEC web site* and as a printed periodical

Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60050: *International Electrotechnical Vocabulary* (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60027: *Letter symbols to be used in electrical technology,* IEC 60417: *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets* and IEC 60617: *Graphical symbols for diagrams.*

* See web site address on title page.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
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Première édition
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Conditionnement des fils de bobinage

Deuxième partie:
Bobines de livraison à fût de forme cylindrique
Section un – Dimensions de base

Packaging of winding wires

Part 2:
Cylindrical barrelled delivery spools
Section One – Basic dimensions

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE E

Pour prix, voir catalogue en vigueur
For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PACKAGING OF WINDING WIRES

Part 2: Cylindrical barrelled delivery spools
Section One — Basic dimensions

FOREWORD

1) The formal decisions or agreements of the I E C on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
3) In order to promote international unification, the I E C expresses the wish that all National Committees should adopt the text of the I E C recommendation for their national rules in so far as national conditions will permit. Any divergence between the I E C recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by I E C Technical Committee No. 55: Winding wires.

This first edition of I E C Publication 264-2-1 replaces the first edition of Publication 264-2 issued in 1968, as well as Amendment No. 1 (June 1975) and Amendment No. 2 (September 1982).

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
55(CO)333	55(CO)362

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

The following I E C publications are quoted in this standard:

Publications Nos. 182: Basic dimensions of winding wires.
264: Packaging of winding wires.
317: Specifications for particular types of winding wires.
851: Methods of test for winding wires.

PACKAGING OF WINDING WIRES

Part 2: Cylindrical barrelled delivery spools
Section One — Basic dimensions

INTRODUCTION

This standard is one of a series which deals with insulated wires used for windings in electrical equipment. The series comprises four groups describing:

1) Basic dimensions (I E C Publication 182)
2) Methods of test (I E C Publication 851)
3) Specifications (I E C Publication 317)
4) Packaging (I E C Publication 264).

1. Scope

This standard specifies the basic dimensions for cylindrical barrelled delivery spools for winding wires.

2. Object

To standardize the dimensions of cylindrical barrelled delivery spools.

3. Dimensions

The dimensions and tolerances for cylindrical barrelled delivery spools are given in Table I in accordance with Figure 1.

Note. — Figure 1 is given to identify the dimensions specified and is not intended to show any particular construction.

TABLE I

Spool type	Dimensions (mm)																
	d_1	d_2	d_3 **		d_4	d_5	d_6 *	l_1	l_2		a *	t_1	t_2	z	y	e_1	r
			Nom.	Tol.					Nom.	Tol.							
40	40	25	11	+0.1 0	15	–	1.5	50	38	±0.10	0.75	14	–	0.4	0.08	–	1
50	50	32	11	+0.1 0	15	–	1.5	50	38	±0.15	0.75	16	–	0.4	0.10	–	1
63	63	40	11	+0.1 0	15	–	2	63	49	±0.15	1.0	18	–	0.4	0.15	–	1.6
80	80	50	16	+0.2 0	24	7	2	80	64	±0.15	1.0	20	8	0.6	0.15	20	2
100	100	63	16	+0.2 0	24	7	2	100	80	±0.2	1.0	22	8	0.6	0.2	20	2
125	125	80	16	+0.2 0	24	7	3	125	100	±0.2	1.5	25	8	0.6	0.2	20	3
160	160	100	22	+0.2 0	34	13	3	160	128	±0.2	1.5	28	12	0.6	0.3	32	3
200	200	125	22	+0.2 0	34	13	3	200	160	±0.3	1.5	32	12	0.6	0.3	32	4
250	250	160	22	+0.2 0	34	13	4	200	160	±0.4	2.0	36	12	1.0	0.4	32	5
355	355	224	36	+0.5 0	60	26	5	200	160	±0.4	2.5	40	30	1.2	0.5	80	5
500	500	315	36	+0.5 0	60	26	10	250	180	±0.5	5.0	40	30	1.6	0.7	80	5
710	710	500	51	+0.5 0	80	26	15	250	180	±0.8	7.5	45	30	2.0	1.0	140	6
1 000	1 000	800	51	+0.5 0	80	26	26	250	180	±1.0	13	50	30	3.0	1.5	140	6

* Spools without holes can be ordered if agreed between supplier and purchaser.
** For spool types 250 and 710, a central bore diameter d_3 of (36 +0.5/–0) mm may be used if agreed between supplier and purchaser.

4. Material

Requirements are to be stated in the purchaser's order.

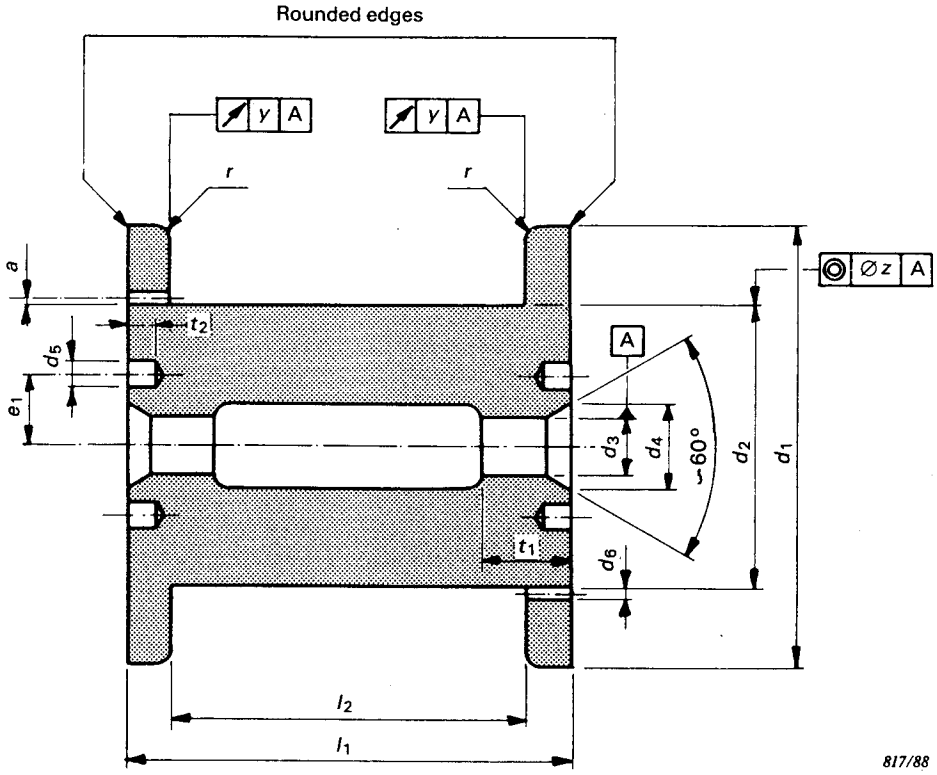

FIG. 1. — Cylindrical barrelled delivery spools.

NORME INTERNATIONALE
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60264-2-1

1989

AMENDEMENT 1
AMENDMENT 1
2003-07

Amendement 1

Conditionnement des fils de bobinage –

Partie 2-1:
Bobines de livraison à fût de forme cylindrique – Dimensions de base

Amendment 1

Packaging of winding wires –

Part 2-1:
Cylindrical barrelled delivery spools – Basic dimensions

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE D

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FOREWORD

This amendment has been prepared by IEC technical committee 55: Winding wires.

The text of this amendment is based on the following documents:

FDIS	Report on voting
55/830/FDIS	55/841/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2003. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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Page 5

INTRODUCTION

Replace the existing text by the following:

This International Standard is one of a series that deals with insulated wires used for winding in electrical equipment. The series comprises three groups describing

1) Winding wires – Test methods (IEC 60851)
2) Specifications for particular types of winding wires (IEC 60317)
3) Packaging of winding wires (IEC 60264)

Replace the existing Table 1 by the following new Table 1:

Table 1 – Dimensions and tolerances for cylindrical barrelled delivery spools

Spool type	Dimensions mm															
	d_1	d_2	d_3[b]		d_4	d_5[c]	d_6[a]	L_1	L_2		a [a]	t_1 Min.	z	y	e_1	r
			Nom.	Tol.					Nom.	Tol.						
40	40	25	11	+0,15	15	–	1,5	50	38	±0,10	0,75	14	0,4	0,08	–	1
50	50	32	11	+0,15	15	–	1,5	50	38	±0,15	0,75	16	0,4	0,10	–	1
63	63	40	11	+0,15	15	–	2	63	49	±0,15	1,0	18	0,4	0,15	–	1,6
80	80	50	16	+0,20	24	7	2	80	64	±0,15	1,0	20	0,6	0,15	20	2
100	100	63	16	+0,20	24	7	2	100	80	±0,20	1,0	22	0,6	0,20	20	2
125	125	80	16	+0,20	24	7	3	125	100	±0,20	1,5	25	0,6	0,20	20	3
160	160	100	22	+0,20	34	13	3	160	128	±0,20	1,5	28	0,6	0,30	32	3
200	200	125	22	+0,20	34	13	3	200	160	±0,30	1,5	32	0,6	0,30	32	4
250	250	160	22	+0,20	34	13	4	200	160	±0,40	2,0	36	1,0	0,40	32	5
355	355	224	36	+0,50	60	26	5	200	160	±0,40	2,5	40	1,2	0,5	80	5
500	500	315	36	+0,50	60	26	10	250	180	±0,50	5,0	40	1,6	0,7	80	5
710	710	500	51	+0,50	80	26	15	250	180	±0,80	7,5	45	2,0	1,0	140	6
1 000	1 000	800	51	+0,50	80	26	26	250	180	±1,00	13	50	3,0	1,5	140	6

[a] Spools without holes can be ordered if agreed between supplier and purchaser. If bore d_6 is wanted, quantity and position of bore d_6 shall be according to agreement.

[b] For spool types 250 and 710, a central bore diameter d_3 of ($36\ ^{+0,5}_{0}$ mm) may be used if agreed between supplier and purchaser.

[c] Number of bore d_5 for spools K 80 and K 100: minimum 1 bore per side.

Number of bore d_5 for spools from K 125: minimum 2 bore per side.

For spools K 80 and K 100 the bore d_5 can be designed as a blind hole.

Replace the existing Figure 1 by the following new Figure 1:

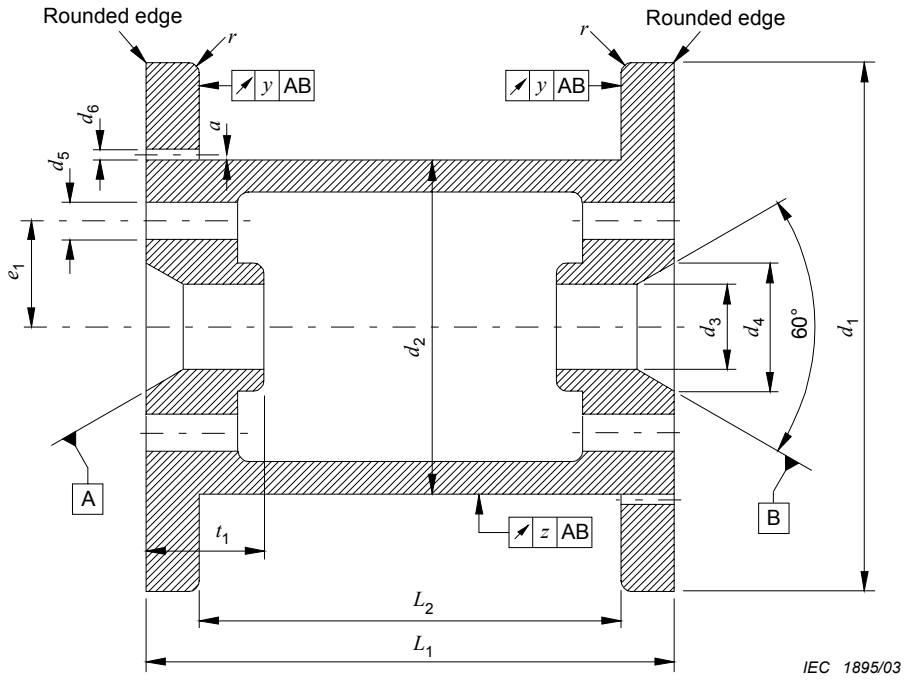

Figure 1 – Cylindrical barrelled delivery spools

ICS 29.060.10 ; 55.000

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The Sri Lanka Standards Institution is the owner of the registered certification mark shown below. Beneath the mark, the number of the Sri Lanka Standard relevant to the product is indicated. This mark may be used only by those who have obtained permits under the SLS certification marks scheme. The presence of this mark on or in relation to a product conveys the assurance that they have been produced to comply with the requirements of the relevant Sri Lanka Standard under a well designed system of quality control inspection and testing operated by the manufacturer and supervised by the SLSI *which includes surveillance inspection of the factory, testing of both factory and market samples.*

Further particulars of the terms and conditions of the permit may be obtained from the Sri *Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.*

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SRI LANKA STANDARDS INSTITUTION

The Sri Lanka Standards Institution (SLSI) is the National Standards Organization of Sri Lanka established under the Sri Lanka Standards Institution Act No. 6 of 1984 which repealed and replaced the Bureau of Ceylon Standards Act No. 38 of 1964. The Institution functions under the Ministry of Science & Technology.

The principal objects of the Institution as set out in the Act are to prepare standards and promote their adoption, to provide facilities for examination and testing of products, to operate a Certification Marks Scheme, to certify the quality of products meant for local consumption or exports and to promote standardization and quality control by educational, consultancy and research activity.

The Institution is financed by Government grants, and by the income from the sale of its publications and other services offered for Industry and Business Sector. Financial and administrative control is vested in a Council appointed in accordance with the provisions of the Act.

The development and formulation of National Standards is carried out by Technical Experts and representatives of other interest groups, assisted by the permanent officers of the Institution. These Technical Committees are appointed under the purview of the Sectoral Committees which in turn are appointed by the Council. The Sectoral Committees give the final Technical approval for the Draft National Standards prior to the approval by the Council of the SLSI.

All members of the Technical and Sectoral Committees render their services in an honorary capacity. In this process the Institution endeavours to ensure adequate representation of all view points.

In the International field the Institution represents Sri Lanka in the International Organization for Standardization (ISO), and participates in such fields of standardization as are of special interest to Sri Lanka.

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