AS 1125—1993

Australian Standard®

Conductors in insulated electric cables and flexible cords

This Australian Standard was prepared by Committee EL/3, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 2 October 1992 and published on 15 March 1993.

The following interests are represented on Committee EL/3:

Australian Electrical and Electronic Manufacturers Association

Department of Defence

Electrical Contractors Association of Australia

Electrical regulatory authorities

Electricity Supply Association of Australia

Office of Energy, New South Wales

Railways of Australia Committee

Testing interests

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS 1125—1993

Australian Standard®

Conductors in insulated electric cables and flexible cords

First published as AS 1125—1974. Second edition 1986. Third edition 1993.

Incorporating: Amdt 1—1993

PREFACE

This Standard was prepared by the Standards Australia Committee on Electric Wires and Cables to supersede AS 1125—1986, Conductors in insulated electric cables and flexible cords.

The conductors specified herein have nominal cross-sectional areas identical with those of corresponding conductors specified in IEC 228 (see below). This Standard includes conductors for which IEC make no provision, namely the Milliken conductors and the solid sectoral circular conductor.

This Standard differs from the previous edition in the following ways:

- (a) The addition of uniaxial conductors as defined in Clause 1.3.5.
- (b) Deletion of Section 5 Copper clad aluminium conductors.
- (c) In Tables 2.5 and 2.6, higher resistance values are specified for 0.75 mm² conductors for use in flexible cords or flexible cables. These resistance values align with IEC 228.

Attention is drawn to the fact that the conductors specified represent (with the exception of conductors for special purposes) the overall range in the types of metals currently specified. It does not necessarily follow that each of the types and sizes of conductor is to be used for a particular cable. The individual Standard for such cable will specify the size and type of conductors that are applicable, from the range given in this Standard.

In the preparation of this Standard, consideration was given to the following Standards:

IEC 228	Conductors of insulated cables
BS 6360	Conductors in insulated cables and cords
BS 2627	Wrought aluminium for electrical purposes — Wire
BS 3988	Wrought aluminium for electrical purposes — Solid conductors for insulated cables

Acknowledgment is made of the assistance received from these documents.

CONTENTS

			Page			
SECTIO	N 1	SCOPE AND GENERAL				
1.1	SCOP	Е	5			
1.2	REFERENCED DOCUMENTS					
1.3	DEFIN	NITIONS	5			
1.4	CONE	DUCTOR MAXIMUM d.c. RESISTANCE	6			
SECTIO	N 2	PLAIN OR TINNED ANNEALED COPPER CONDUCTORS AND PLAIN OR TINNED HARD-DRAWN COPPER CONDUCTORS				
2.1	GENE	RAL	7			
2.2		RIAL	7			
2.3		1 OF CONDUCTOR	7			
2.4		TS IN CONDUCTORS	7			
2.5		TRUCTION, DIMENSIONS AND RESISTANCE OF CONDUCTORS	7			
SECTIO		SILVER-PLATED AND NICKEL-COATED ANNEALED COPPER CONDUCTORS				
3.1	GENE	RAL	13			
3.2	MATE	ERIAL	13			
3.3	FORM	1 OF CONDUCTOR	13			
3.4		TS IN CONDUCTORS	13			
3.5		TRUCTION, DIMENSIONS AND RESISTANCE OF CONDUCTORS	13			
SECTIO		ALUMINIUM CONDUCTORS				
4.1	GENE	CRAL	16			
4.2		ERIAL	16			
4.3		1 OF CONDUCTOR	16			
4.4		TS IN CONDUCTORS	16			
4.5		TRUCTION, DIMENSIONS AND RESISTANCE OF CONDUCTORS	16			
TABLES		TREETION, DIMENSIONS THE RESISTENCE OF CONDUCTORS	10			
2.1		IS OF CONDUCTOR, CONDUCTOR APPLICATIONS AND				
2.1		ISE REFERENCES	7			
2.2	TESTS	S FOR PLAIN OR TINNED COPPER CONDUCTORS	9			
2.3	STRA	O CIRCULAR, UNIAXIAL CIRCULAR, STRANDED CIRCULAR AND NDED CIRCULAR COMPRESSED PLAIN OR TINNED	10			
2.4		ER CONDUCTORS IN FIXED CABLES	10			
2.5		NNED COPPER CONDUCTORS IN FIXED CABLES	11			
2.5		CHED CIRCULAR PLAIN OR TINNED ANNEALED COPPER DUCTORS IN FLEXIBLE CORDS OR FLEXIBLE CABLES	11			
2.6		NDED OR CONCENTRICALLY BUNCHED CIRCULAR TINNED EALED COPPER CONDUCTORS IN FLEXIBLE CORDS	12			
2.7	MULT	TIPLE-STRANDED CIRCULAR PLAIN OR TINNED ANNEALED ER CONDUCTORS (ROPE LAY) IN FLEXIBLE CABLES	12			
3.1		IS OF CONDUCTOR, CONDUCTOR APPLICATIONS AND CLAUSE RENCES	13			
3.2	TESTS	S FOR SILVER–PLATED AND NICKEL–COATED ANNEALED ER CONDUCTORS	14			
3.3	SOLII OR NI	O CIRCULAR AND STRANDED CIRCULAR SILVER-PLATED ICKEL-COATED ANNEALED COPPER CONDUCTORS IN O CABLES	14			
3.4	STRA PLATI	NDED OR CONCENTRICALL.Y BUNCHED CIRCULAR SILVER– ED OR NICKEL–COATED ANNEALED COPPER CONDUCTORS EXIBLE CORDS AND FLEXIBLE CABLES	15			
3.5	BUNC	CHED CIRCULAR SILVER-PLATED OR NICKEL-COATED ANNEALED				
4.1	FORM	ER CONDUCTORS IN FLEXIBLE CORDS AND FLEXIBLE CABLES IS OF CONDUCTOR, CONDUCTOR APPLICATIONS AND	15			
	CLAU	ISE REFERENCES	16			



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation