AS 1977—1977

Australian Standard®

FLEXIBLE INSULATING SLEEVING FOR ELECTRICAL PURPOSES

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia

Australian-British Trade Association

Australian Electrical Manufacturers Association

Copper and Brass Information Centre

Department of Construction

Department of Defence

Department of Transport

Electrical Contractors Associations of Australia

Electrical Testing laboratories

Electrical Supply Association of Australia

Railways of Australia Committee

SAA Committee EL/2

Statutory Electricity Authorities

Telecom Australia

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The Association desires to call attention to the fact that this specification does not purport to include all the necessary conditions of a contract.

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FLEXIBLE INSULATING SLEEVING FOR ELECTRICAL PURPOSES

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PREFACE

This standard was prepared by the Association's Committee on Electric Wires and Cables as an extensive revision and metrication of AS C176—1966, Approval and Test Specification for PVC Insulating Sleeving, which it accordingly supersedes.

The extent of the revision is such that PVC insulating sleeving is now only one of many flexible materials covered by this standard for insulating sleeving.

This standard is technically similar to BS 2848:1973, Flexible Insulating Sleeving for Electrical Purposes. Acknowledgement is made of the assistance received from that standard.

This standard may require reference to the following standards:

AS 1099	Basic Environmental Testing Procedures for Electronics and Telecommunication Purposes Part 2J— Mould Growth
AS B75	External Micrometers
AS C329	Method for the Measurement of Voltage with Sphere-gaps (One Sphere Earthed)
BS 441	Rosin-cored Solder Wire, 'Activated' and 'Non-activated' (Non-corrosive)
BS 2586	Glass Electrodes for Measurement of pH
BS 3218	Test Tubes and Boiling Tubes
BS 3858	Binding and Identification Sleeves for Use on Electric Cables and Wires
BS 6746C	Colour Chart for PVC Insulation and Sheath of Electric Cables.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for FLEXIBLE INSULATING SLEEVING FOR ELECTRICAL PURPOSES

1 SCOPE. This specification sets out requirements and dimensions for a range of flexible insulating sleevings of circular section, intended primarily for the insulation of electrical conductors and connections of electrical apparatus. It includes sleevings made by the varnishing or coating of a textile base, and others formed by extrusion of suitable insulating materials.

This specification does not apply to pre-stretched tubing.

NOTES:

1. Some of the types of sleeving included are also suitable, especially in the larger sizes, for the covering and holding together of a number of conductors which are already individually insulated.
2. The tests specified are designed to control the quality of the sleeving, but it is recognized that they do not completely establish the suitability of sleeving for varnish and wax impregnation processes or its suitability for use in contact with other materials. It is, therefore, recommended that appropriate impregnation or compatibility tests be agreed where necessary between the purchaser and the supplier to suit individual circumstances.

2 TYPES OF SLEEVING.

2.1 References. The sleevings are given references, e.g. Type 3/105T, in which the first number indicates the general make-up and material of the sleeving, the second number indicates (in degrees Celsius) the maximum operating temperature, and the letter T signifies that this sleeving is suitable for use under tropical or similarly severe conditions, within the appropriate temperature limitation.

NOTE: The type numbers are not consecutive, as some types, e.g. Type 2, have been omitted because they are no longer readily available or produced in sufficient quantity to justify inclusion in this specification.

2.2 Construction. The sleevings shall be designated according to the construction, as follows:

(a) *Type 1.* Sleeving made by applying to a textile braid an adherent continuous coating of suitable compound or varnish. Where braid of glass is specified this shall be E Type glass. The following materials constitute Type 1:

1/105a . . . Braid of cotton or regenerated cellulose.