

Australian Standard™

Electrical installations in ships

**Part 359: Sheathing materials for
shipboard power and
telecommunication cables**



This Australian Standard was prepared by Committee EL-003, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 9 November 2005.
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The following are represented on Committee EL-003:

Australasian Railway Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Canterbury Manufacturers Association New Zealand
Department of Defence (Australia)
Department of Primary Industries, Mine Safety (NSW)
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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify the requirements for sheathing material intended for use in shipboard power and telecommunications cables.

This Standard is identical with, and has been reproduced from IEC 60092-359, Ed. 1.2 (1999), *Electrical installations in ships—Part 359: Sheathing materials for shipboard power and telecommunication cables*.

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CONTENTS

	<i>Page</i>
1 Scope and object	1
2 Sheathing materials	1
2.1 General.....	1
2.2 Mechanical characteristics	2
2.3 Particular characteristics.....	3
Annex A (informative) Ozone resistance test	5

NOTES

STANDARDS AUSTRALIA

Australian Standard
Electrical installations in ships
Part 359: Sheathing materials for shipboard power and telecommunication cables

1 Scope and object

This standard specifies the test requirements for mechanical and particular characteristics of sheathing materials intended to be used in shipboard power and telecommunication cables.

2 Sheathing materials**2.1 General**

The types of sheathing compounds covered by this standard are listed in table I together with abbreviated designation and operating temperature limits of the conductor of the cables for which they can be used.

Table I

Type of sheathing compound	Abbreviated designation	Temperature limit of the cable conductor in normal operation °C
a) <i>Thermoplastic</i>		
– Based upon polyvinyl chloride or copolymer of vinylchloride and vinyl-acetate	ST 1 ST 2	60 85
– Halogen-free	SHF 1	85
b) <i>Elastomeric or thermosetting</i>		
– Based on polychloroprene rubber	SE 1	85
– Based on chlorosulphonated polyethylene or chlorinated polyethylene rubber	SH	85
– Halogen-free	SHF 2	85
NOTE Equivalent materials may be accepted by agreement between manufacturer and final user.		