

Australian Standard[®]

**Conductors—Bare overhead—
Hard-drawn copper**

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CONDUCTORS—BARE OVERHEAD—HARD-DRAWN COPPER
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The following interests are represented on Committee EL/10:

Australian Electrical and Electronic Manufacturers Association

Australian Porcelain Insulators Association

Confederation of Australian Industry

Electrical and Radio Federation of Victoria

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STANDARDS AUSTRALIA

RECONFIRMATION
OF
AS 1746—1991
Conductors—Bare overhead—Hard-drawn copper

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Energy Networks Association

NOTES

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PREFACE

This Standard was prepared by the Standards Australia Committee on Overhead Lines and supersedes AS 1746—1975, *Hard-drawn copper conductors for overhead power transmission purposes*.

The range of conductor sizes provided is similar to the range specified in AS 1746—1975, but the Standard also provides the facility for conductors of other dimensions to be supplied by reference to this Standard.

This Standard differs from the 1975 edition as follows:

- (a) Minimum ultimate tensile stress (UTS) of the larger wire sizes has been reduced slightly to reflect the changed copper purity, and processing methods. Other wire UTS values have been rationalized.
- (b) An additional wire size (3.75 mm diameter), and a new standard conductor construction (7/3.75) have been introduced.
- (c) A new appendix has been provided, which includes the coefficient of linear expansion, and the theoretical basis for the calculation of modulus of elasticity.
- (d) Another new appendix has been included which highlights items which should be specified by the purchaser or agreed between the purchaser and manufacturer at the time of order.

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