

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 1125: 2001
Conductors in insulated electric cables and flexible cords

REVISED TEXT

The 2001 edition of AS/NZS 1125 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to Clause 2.4.1, Table 2.4 and Table 3.1.

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Page 7 Clause 2.4.1

Add a new fourth paragraph:

Silver solder shall contain a minimum of 45 percent silver alloy. The melting point shall be less than 650°C using the recommended flux.

NOTE: Solder containing cadmium should not be used unless appropriate safety precautions are taken.

This Amendment forms part of the Standard on publication.

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Page 13 Table 2.4

For the 10 mm² nominal area *delete* '1.98' in the third column and *replace* with '1.91', and *delete* '2.02' in the fourth column and *replace* with '1.95'.

This Amendment forms part of the Standard on publication.

Page 17 Table 3.1

Delete Table 3.1 and *substitute* the following:

TABLE 3.1
TESTS FOR ALUMINIUM CONDUCTORS

Test	Criteria		Category of test	Reference for test method
Tensile strength: (NOTE: All cross-sectional areas are nominal) (a) Solid: (i) Circular conductors $\geq 50 \text{ mm}^2$ and all sector shaped conductors (ii) Circular conductors 35 mm^2 and 25 mm^2 (iii) Circular conductors $\leq 16 \text{ mm}^2$ (b) Stranded conductor wires: (i) For other than aerial cables (ii) For aerial cables	90 MPa max. 125 MPa max. 165 MPa max. 120 MPa min. 205 MPa max.		Sample	AS/NZS 1660
	Wire diameter	Minimum tensile strength		
	mm	MPa		
	> 1.25 ≤ 1.50	183		
	> 1.50 ≤ 1.75	179		
	> 1.75 ≤ 2.00	175		
	> 2.00 ≤ 2.25	171		
	> 2.25 ≤ 2.50	167		
	> 2.50 ≤ 2.75	163		
	> 2.75 ≤ 3.00	161		
	> 3.00 ≤ 3.25	157		
	> 3.25 ≤ 3.50	156		
	> 3.50 ≤ 3.75	154		
	> 3.75 ≤ 4.25	152		
	> 4.25 ≤ 5.00	151		
Wrapping test of conductor wires taken from stranded circular conductors for aerial cables	The wire shall not break		Sample	AS/NZS 1660.1
Conductor resistance	The resistance value shall be in accordance with Tables 3.2 or 3.3 as appropriate		If not specified the test shall be a sample test.	AS/NZS 1660

NOTE: For sample tests the minimum number of individual wires to be tested for the tensile strength shall be the square root of the total number of wires in the conductor (to the nearest whole number), subject to a maximum of 20 wires.

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