

Conduit systems for cable management

Part 21: Particular requirements — Rigid conduit systems

Amendment No. 2

Revised text amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 2 May 2023

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Summary

This Amendment applies to the following elements:

- Preface
- Clause 8.201.1
- Tables 201, 207

Amendment Details

AS/NZS 61386.21:2015 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
Preface	After the fifth paragraph, <i>add</i> the following: The objective of Amendment 2 is to specify minimum inside diameter dimensions, particularly for larger size conduits carrying multiple cables, and to clarify the relationship between the mechanical classifications in AS/NZS 2053.2 and AS/NZS 61386.21.
Cl 8.201.1	<i>Delete</i> the second sentence and <i>replace</i> with the following: Polyethylene conduits shall comply with the dimensions of Table 2 of AS/NZS 4130:2018.
Tbl 201	<i>Delete</i> Table 201, and <i>replace</i> with the following:

TABLE 201
DIMENSIONS OF CONDUITS

Circular conduit, <i>t</i>			Oval conduit										millimetres
Nominal size (see note)	Outside diameter			Mean inside diameter	Tolerance on end squareness	Nominal size	<i>D</i> 1		<i>D</i> 2		<i>r</i> nom.		
	Mean diameter <i>D</i> _m	Out of roundness	Min.				Max.	Min.	Max.				
16	15.7	16.0	0.5	11.8		20 × 9	20.0	20.3	8.8	9.1	4.4		
20	19.7	20.0	0.5	14.4		20 × 12	20.0	20.3	11.6	11.9	5.9		
25	24.7	25.0	0.5	19.0		24 × 14	23.6	23.9	14.1	14.4	7.2		
32	31.7	32.0	0.5	25.6									
40	39.7	40.0	0.5	32.8									
50	49.7	50.0	0.5	41.8									
63	62.7	63.0	0.6	53.5									
65*	75.2	75.5	0.7	66.0									
80(NZ)*	82.3	82.7	1.0	72.2									
80(AU)*	88.7	89.1	0.9	77.8									
100(NZ)*	110.0	110.4	1.2	96.6									
100(AU)*	114.1	114.5	1.2	100.3									
125*	140.0	140.4	1.4	123.3									
150*	160.0	160.5	1.6	140.9									
175*	200.0	200.5	2.0	177.2	7								
200*	225.0	225.6	2.2	199.4	8								
225*	250.0	250.7	2.5	221.5	9								
250*	280.0	280.8	2.8	248.2	10								
300*	315.0	315.9	3.1	279.3	11								

* Attention is drawn to the fact that the nominal sizes of conduits 16 to 63 refer to outside diameters, whereas sizes 65 and above refer to approximate internal diameter. Sizes 65 and above are included as 'conduit' for convenience and to avoid confusion in the electrical industry. They are identical in dimensions with existing pressure pipes to AS/NZS 1477, except for 80(NZ) and 100(NZ) which are identical in dimensions with non-pressure pipes to AS/NZS 1260. IEC and ISO do not at present recognize 'conduit' in this range.

NOTE Nominal sizes 80(NZ) and 100 (NZ) are generally used in New Zealand. Nominal sizes 80(AU) and 100(AU) are generally used in Australia.