

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 1300:2009
Electrical equipment for mines and quarries—Bolted explosion-protected three-phase cable coupling devices

CORRECTION

The 2009 edition of AS/NZS 1300 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Clause 3.3.10, Tables 6 and 7, and Appendix B.

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Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 8 March 2012.

Table 6

Delete the existing Table and *replace* with the following:

TABLE 6
PHASE TEST CURRENT

Current rating A	Phase test current kA					
	Rated voltage				Asymmetrical peak factor	Power factor
	660 V/1.1 kV	3.3 kV	6.6 kV	11 kV		
55	3.2	—	—	—	1.7	0.5
150	12.5	12.5	13.5	13.5	2.0	0.3
300	25	25	13.5	13.5	2.0	0.3
425	25	25	13.5	13.5	2.0	0.3
800	—	—	—	13.5	2.0	0.3

Clause 3.3.10

1 Delete Table 7 and *replace* with the following:

TABLE 7
EARTH-FAULT PATH TEST CURRENT

Current rating A	Earth-fault path test current kA		Asymmetrical peak factor	Power factor
	Rated voltage			
	660 V/1.1 kV	≥3.3 kV		
55	1	—	1.7	0.5
150	4	4	2.0	0.3
300	8	8	2.0	0.3
425	8	8	2.0	0.3
800	—	8	2.0	0.3

- 2 *Delete* the final three paragraphs and *replace* with the following:

‘The above tests shall be applied twice at 10 minute intervals.

This test may be conducted at any convenient voltage. Alternatively the test may be carried out at rated voltage with a supply providing the above test current as prospective current.

The device shall pass this test if the continuity of the earth path is less than $0.01\ \Omega$ (not including the resistance of the cable connection to earth) after the earth-fault path test.’

Appendix B

Delete Appendix B and *replace* with the following:

APPENDIX B

PROPERTIES OF INSULATING MATERIALS

(Normative)

Insulation property	Standard	Value	Comment
Water absorption	ISO 62	<0.5%	Test for 24 h at 23°C
	ASTM D-570	<0.5%	
Electric strength	IEC 60243	>8 kV/mm at 25°C	After conditioning
		>4 kV/mm at 100°C	
Surface resistance	IEC 60093	> $10^9\ \Omega$	—
	DIN IEC 93/167*	> $10^9\ \Omega$	
Volume resistivity	IEC 60093	> $10^9\ \Omega/\text{cm}$	25°C
	DIN IEC 93/167*	> $10^9\ \Omega/\text{cm}$	25°C
CTI	IEC 60112	>400	—

* DIN IEC 93/167 refers to the DIN equivalents of IEC 60093 and IEC 60167.
