

18. ASIA AND THE PACIFIC RIM

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18.1 Australian Standards

18.1.1 SAA

Standards Australia (Standards Association of Australia)
80 Arthur Street
Post Office Box 458
North Sydney, NSW 2060
Australia
Tel: 61-2-963-4111
Fax: 61-2-959-3896



DOCUMENT NO.	TITLE
AS 1026	Impregnated Paper Insulated Cables for Electricity Supply at Working Voltages Up To and Including 33 kV (Metric Units)
AS 1125	Conductors in Insulated Electric Cables and Flexible Cords
AS 2380	Electrical Equipment for Explosive Atmospheres — Explosion Protection Techniques
AS 2381	Electrical Equipment for Explosive Atmospheres — Selection, Installation and Maintenance
AS 2430	Classification of Hazardous Areas
AS 3000	SAA Wiring Rules
AS 3008	Electrical Installations — Selection of Cables
AS 3008.1	Part I: Cables for Alternating Voltages Up To and Including 0.6/1 kV
AS 3112	Plugs and Socket-Outlets
AS 3116	Electric Cables — Elastomer Insulated for Working Voltages Up To and Including 0.6/1 kV
AS 3123	Plugs, Socket-Outlets and Couplers for General Industrial Application
AS 3147	Electric Cables — Thermoplastic Insulated and Flexible Cables for Working Voltages Up To and Including 0.6/1 kV
AS 3155	Neutral Screened Cables for Working Voltages of 0.6/1 kV
AS 3158	Fibrous-Insulated Electric Cables and Flexible Cables for Working Voltages of 0.6/1 kV
AS 3166	PVC Insulated Cables for Electric Signs and High-Voltage Luminous Discharge Tube Installations
AS 3178	Electric Cables — Silicone Rubber Insulated — for Working Voltages Up To and Including 0.6/1 kV
AS 3187	Mineral-Insulated Metal-Sheathed Cables

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DOCUMENT NO.	TITLE
AS 3188	Terminations and Glands for Mineral-Insulated Metal-Sheathed Cables
AS 3191	Electric Flexible Cords (Incorporation Corrigenda)
AS 3198	Electric Cables — XLPE Insulated for Working Voltages Up To and Including 0.6/1 kV
AS 3560	Electric Cables — Aerial-Bundled Voltages Up To and Including 0.6/1 kV

18.1.2 Austel Australian Telecommunications Authority

DOCUMENT NO.	TITLE
009	Installation Requirements for Customer Cabling (Wiring Rules)

18.1.3 ETSA Electricity Trust of South Australia

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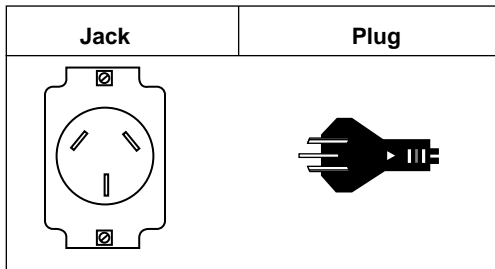
18.1.4 Supply Voltages and Plug Configuration

Table 18.1—Australian supply voltages

FREQUENCY (Hz)	VOLTAGE
50	240/415
50	250/440

The neutral wire of the secondary distribution system is grounded. A grounding conductor is required in the electrical cord attached to appliances that are not double insulated.

Table 18.2—Australian plug configuration



18.1.5 Limiting Temperatures for Insulated Cables

Table 18.3—Limiting temperatures for Australian insulated cables

Type of Cable Insulation	Cable Operating Temperature, °C	
	Normal Use	Minimum
Elastomer compounds		
Type R-EP-90	90	-40
Type R-CSP-90	90	-20
Type R-CPE-90	90	-20
Type R-HF-90	90	-20
Type R-S-150	150	-50
Type R-S-200	200	-50
Thermoplastic compounds		
Type V-75	75	0
Type HFI-75-TP	75	-20
Type V-90	75	0
Type HFI-90-TP	75	-20
Type V-105	75	0

Continued

Table 18.3—Limiting temperatures for Australian insulated cables

Continued

Type of Cable Insulation	Cable Operating Temperature, °C	
	Normal Use	Minimum
Heat-resisting fibrous insulation		
Type 110	110	0
Type 150	150	0
Type 200	200	0
Type 200 plus	>200	0
Mineral-insulated cables copper-sheathed (MIMS)	90	–
Paper	80	5
Cross-linked polyethylene (XLPE)	90	–70

Source: SAA Wiring Rules (AS 3000)

18.2 Singapore Standards

18.2.1 SISIR

Singapore Institute of Standards and Industrial Research
1 Science Park Drive
Singapore Science Park
Singapore 0511
Contact: Mr. Liep Lin Yap
Tel: 65-778-7777
Fax: 65-776-1568

DOCUMENT NO.	TITLE
SS358	300/500 V and 450/750 V nonarmored, PVC insulated power cables
SS299 Part 1	300/500 V and 450/750 V fire resistant power cables

The following British and international cable standards are also used in Singapore: BS6004, BS6346, BS6387, BS6500, IEC 331, and IEC 502.

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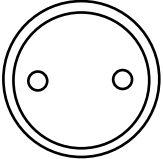

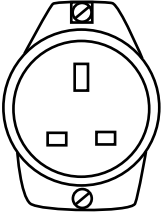
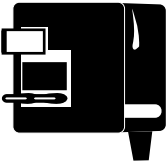
18.2.2 Supply Voltage and Plug Configurations

Table 18.4–Singapore supply voltage

FREQUENCY (Hz)	VOLTAGE
50	230/400

A grounding conductor is required in the electrical cord attached to appliances.

Table 18.5–Singapore plug configurations

Jack	Plug	Description
		Ungrounded Eurocord CEE 7/16
		British Standard BS 1363

18.3 Japanese Standards

18.3.1 JIS

Japanese Industrial Standards

Available from: American National Standards Institute

1430 Broadway, New York NY 10018

Tel: 212-354-3300

DOCUMENT NO.

TITLE

JIS C3613

Oil-Filled Type Paper Insulated Aluminum-Sheathed Power Cables

18.3.2 Plug Configuration

Table 18.6—Japanese plug configuration

Jack	Plug
