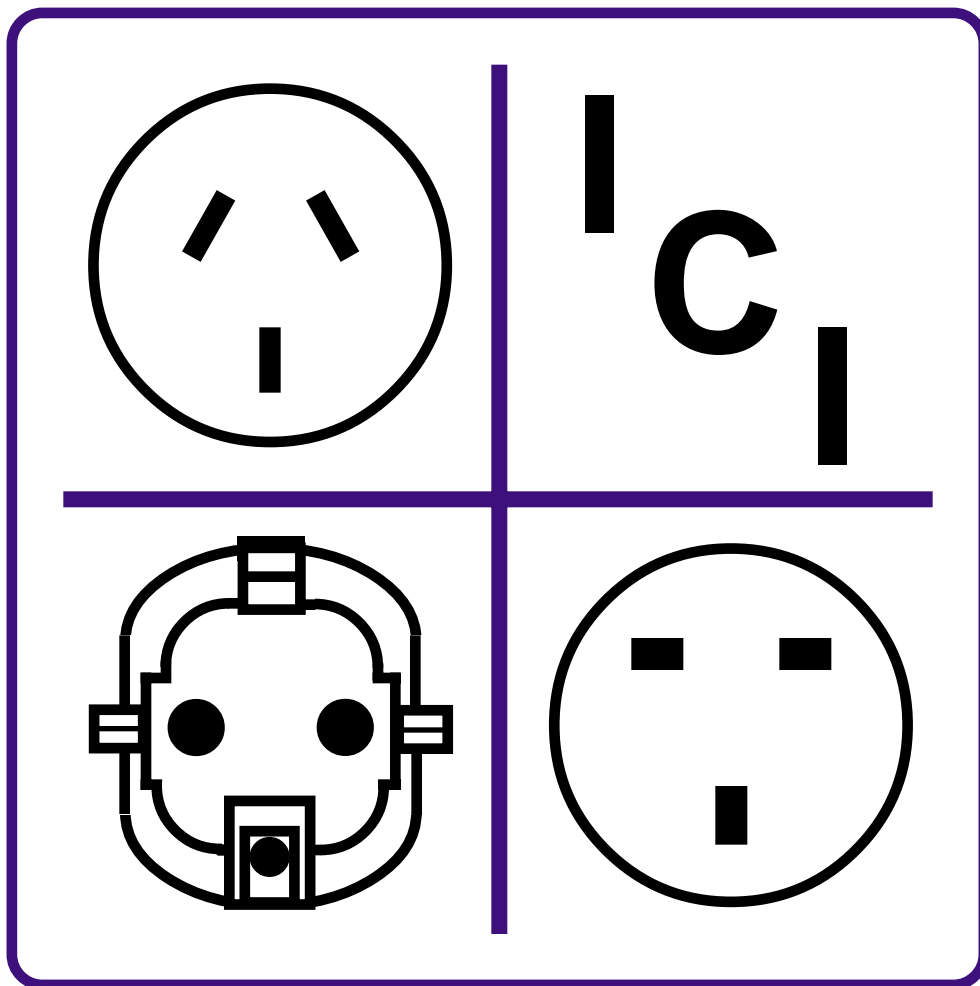


# International Wiring Devices and Accessories

*Catalog No. 20*

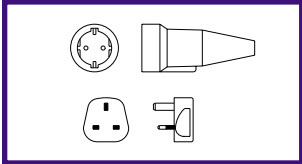
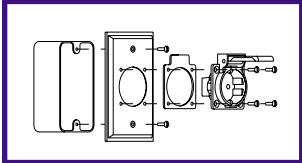
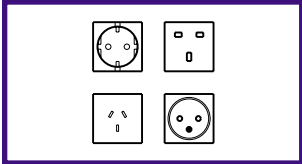
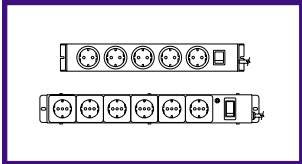
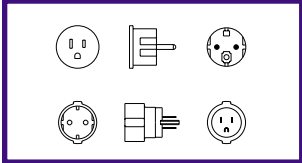
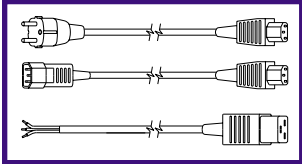
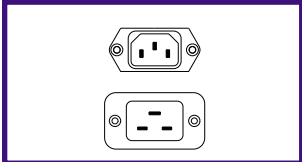


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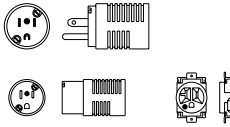
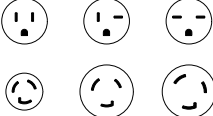
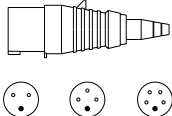
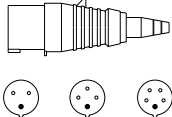
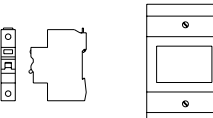
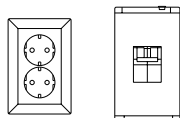
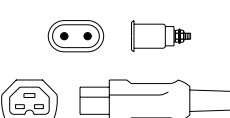
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# INTRODUCTION

International Configurations, Inc. is a leading supplier and manufacturer of quality International plugs, receptacles, connectors and related electrical accessories that are in accordance with VDE, OVE, BSI, KEMA, NEMKO, SEV, CEBC, DEMKO, UL, CSA and other standards/testing agency requirements.

The "CE" marking requirements of European low voltage directive (73/23/EEC) applies to **equipment** exported to Europe. This directive requires components used on equipment or appliances to have VDE or other agency approvals. Certification to VDE and other approval agencies is available on applicable components.

Certification to "ISO" requirements is also available on components manufactured in ISO approved facilities.

The use of these approved wiring devices on exported electrical / electronic equipment speeds the testing / approvals process of products submitted to foreign test agencies and allows the equipment to interface with the electrical systems of various countries around the world.

## GENERAL

When exporting electrical / electronic equipment to foreign countries there are three basic power plug / receptacle configuration systems in use in most countries of the world. They are the "NATIONAL" configurations, "IEC 309 - CEE 17" configurations and "IEC 320" configurations which are explained below.

### NATIONAL CONFIGURATIONS

National configurations are plug / receptacles of a blade or pin design that are commonly used in a general geographical area or a specific country for the connection of electrical / electronic equipment to a power source.

Generally rated 16 ampere-250 volt or less they are used on computers, appliances, medical equipment, small machines, portable tools and other light duty / medium duty electrical equipment.

Many countries have configuration standards for 2 pole-2 wire, 2 pole-3 wire and 3 pole-4 wire type plugs / receptacles, however, the preponderance of usage is the 2 pole-3 wire grounding configuration.

Usage of 2 pole-3 wire grounding configurations in foreign countries is similar to the use and application of NEMA 5-15 plugs and receptacles in the United States.

All "NATIONAL" configuration plugs, receptacles, connectors, power strips, cords and cord sets are approved by the appropriate testing agency where applicable.

### IEC 320 CONFIGURATIONS

IEC 320 configurations are a series of plugs, connectors, inlets and outlets designed for use on portable equipment such as computers, printers, medical equipment and other electrical / electronic equipment. Typical examples are the three pin power inlets on the back of your computer or printer. Cord sets with IEC 320 connectors and national plug configurations allow exported equipment to interface with outlets used around the world.

IEC 320 devices are in accordance with standard sheets C 13-14 (65°C), C 15-16 (120°C), C 19-20 (65°C) at various ratings.

The 120°C devices incorporate a keyway that prevents entry of 65°C connectors.

Approvals include UL, CSA, VDE, OVE, CEBC, DEMKO, KEMA, SEV, NEMKO and other agencies.

### IEC 309 - CEE 17 CONFIGURATIONS

IEC 309 - CEE 17 configurations are HEAVY DUTY plug / receptacles of a pin / sleeve design and have a specific rating for each configuration.

Unlike "NATIONAL" type plug / receptacle configurations that are used in a general geographic area or specific country, the IEC 309 - CEE 17 are recognized in many countries of the world for use on heavy duty equipment. IEC 309 - CEE 17 devices are rated 16/20 ampere, 30/32 ampere, 60/63 ampere, 125 ampere in various voltages and are available in 2 pole - 3 wire, 3 pole - 4 wire and 4 pole - 5 wire grounding configurations.

These units are approved by the various testing / standards agencies and are ideal for application on large computers, machine tools, welders and other industrial equipment.

Explosion-proof, watertight and high abuse models are available on request.



# How to use this catalog

We have developed a configuration / product identification system on "NATIONAL" configurations to assist you in selecting and identifying the plugs, receptacles and connectors used in various countries around the world.

The "NATIONAL" configurations on page 6 are identified with a configuration number which is keyed to the countries on pages 7 and 8. This allows you to identify the configuration(s) in use in a general geographic area or specific country.

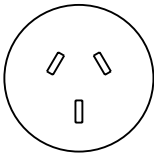
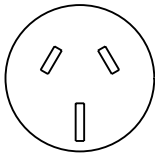
Some countries use two or three different configurations for general use 2 pole-3 wire grounding applications and our configuration identification system identifies the primary configuration (preponderance of usage) in bold type.

The primary configuration is recommended for most countries unless the equipment rating requires a higher rated configuration.

All catalog pages with "NATIONAL" type products have the configurations and configuration numbers on the page to aid users in identifying the products recommended for different countries.

The following is an example of the configuration / country identification system.

## Configuration Identification

Configuration Number	Configuration	Rating	Australia	Primary Configuration	Ampere Rating	Receptacle (Outlet)
<b>AU1-10R</b>		<b>10A 250V</b>	<b>AU</b>	<b>1</b>	<b>10</b>	<b>R</b>
<b>AU2-15R</b>		<b>15A 250V</b>	<b>AU</b>	<b>2</b>	<b>15</b>	<b>R</b>

The configuration chart on page 6 shows receptacle (outlet) configurations such as **AU1-10R**. The chart also shows plug configurations such as **AU1-10P**. Plugs are identified by the suffix "P".

### NOTE:

The general geographic area or specific country has been identified in the configuration number prefix.

EXAMPLES:	Country / Area	Prefix	Country / Area	Prefix
	Australia	AU	France	FR
	Denmark	DE	Italy	IT
	Europe	EU	Switzerland	SW
	United Kingdom	UK	Japan	JA

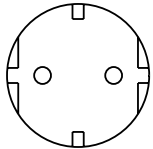
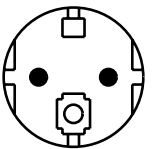
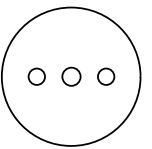
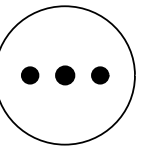
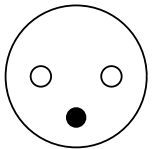
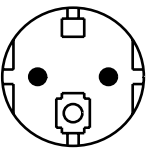
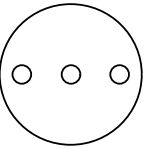
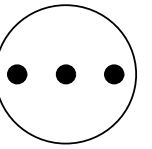
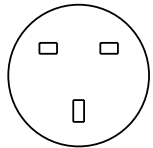
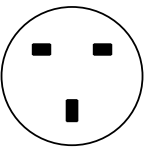
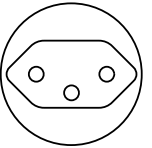
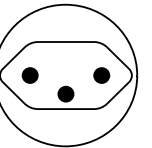
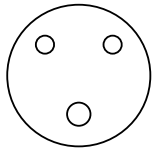
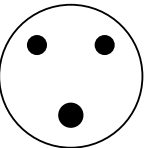
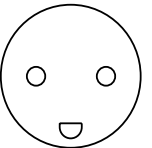
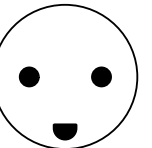
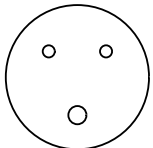
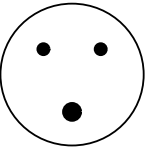
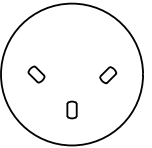
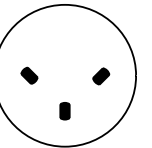
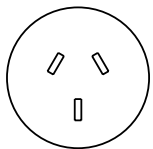
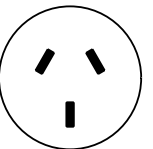
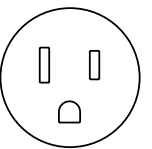
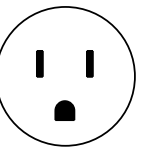
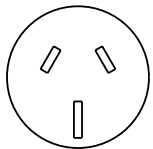
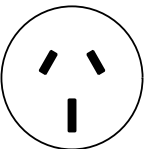

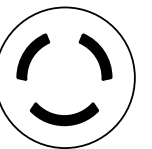
**NOTE:** IEC 309 - CEE 17 Pin / Sleeve devices are recognized or acceptable in most countries of the world for heavy-duty applications. Please refer to the IEC 309 - CEE 17 catalog section for information on these products.

**NOTE:** IEC 320 configurations used on electronic / electrical equipment are shown in the IEC 320 catalog section



# Configuration Chart

## National Receptacles and Plugs

CONFIGURATION	RATING	CONFIGURATION	RATING		
 EU1-16R	 EU1-16P	<b>16 Ampere 250 Volt European "SCHUKO"</b> Receptacle and plug. Non-Polarized. Receptacle CEE 7. Plug CEE 7-7.	 IT1-10R	 IT1-10P	<b>10 Ampere 250 Volt Italian</b> Receptacle and plug. Non-Polarized. (CEI 23-16 / VII 1971)
 FR1-16R	 EU1-16P	<b>16 Ampere 250 Volt French</b> Receptacle grounding pin at 6:00 position. Polarizes CEE 7-7 plug	 IT2-16R	 IT2-16P	<b>16 Ampere 250 Volt Italian</b> Receptacle and plug. Non-Polarized. (CEI 23-16 / VII 1971)
 UK1-13R	 UK1-13P	<b>13 Ampere 250 Volt United Kingdom</b> Receptacle and fused plug. Polarized. (BS 1363A)	 SW1-10R	 SW1-10P	<b>10 Ampere 250 Volt Swiss</b> Receptacle and plug. Polarized. (SEV 1011. 1959)
 UK2-15R	 UK2-15P	<b>15 Ampere 250 Volt United Kingdom</b> Receptacle and plug. Polarized. (BS 546A) NOTE: Interchangeable with South Africa receptacle and plug. Rated 16 Ampere 250 Volt.	 DE1-10R	 DE1-10P	<b>10 Ampere 250 Volt Danish</b> Receptacle and plug. Polarized. (AFSNIT 107-2-01)
 UK3-5R	 UK3-5P	<b>5 Ampere 250 Volt United Kingdom</b> Receptacle and plug. Polarized. (BS 546A)	 IS1-16R	 IS1-16P	<b>16 Ampere 250 Volt Israeli</b> Receptacle and plug. Polarized. (SI 32)
 AU1-10R	 AU1-10P	<b>10 Ampere 250 Volt Australian</b> Receptacle and plug. Polarized. (AS / NZS 3112 1993)	 JA1-15R	 JA1-15P	<b>15 Ampere 125 Volt Japanese</b> Receptacle and plug. Polarized. (JIS 8303)
 AU2-15R	 AU2-15P	<b>15 Ampere 250 Volt Australian</b> Receptacle and plug. Polarized. (AS / NZS 3112 1993) NOTE: Receptacle also accepts AU1-10P (10 Ampere 250 Volt) plug.	 JA1-15LR	 JA1-15LP	<b>15 Ampere 125 Volt Japanese</b> Locking receptacle and plug. Polarized. (JIS 8303)

### Configuration Code

EU = European, FR = France, DE = Denmark, SW = Switzerland, IT = Italy, UK = United Kingdom, AU = Australia, IS = Israel, JA = Japan

**NOTE:** The national configurations identified above are used in a specific country, general geographic location, affiliated country or former colonies. Example: The French configuration **FR1-16R** is used in France, Belgium and Algeria. A recommended configuration for each country is shown on pages 7 and 8.

**NOTE:** The nominal voltage for European single phase systems (not U.K.) will be changed to 230 VAC / 50 Hz by 2003.



<b>COUNTRY</b>	<b>CONFIGURATION</b>	<b>COUNTRY</b>	<b>CONFIGURATION</b>
Afghanistan .....	<b>UK2-15R, UK3-5R</b>	France .....	<b>FR1-16R</b>
Algeria .....	<b>FR1-16R</b>	French Guiana .....	<b>FR1-16R</b>
American Samoa .....	<b>Nema 5-15R</b>	Gabon .....	<b>FR1-16R</b>
Angola .....	*	Gambia .....	<b>UK1-13R</b>
Antigua .....	<b>Nema 5-15R</b>	German Dem. Rep. ....	<b>EU1-16R</b>
Argentina .....	*	Germany, Fed. Rep. ....	<b>EU1-16R</b>
Australia .....	<b>AU1-10R, AU2-15R</b>	Ghana .....	<b>UK1-13R, UK2-15R, UK3-5R</b>
Austria .....	<b>EU1-16R</b>	Gibraltar .....	<b>UK1-13R</b>
Azores .....	<b>UK2-15R, UK3-5R</b>	Greece .....	<b>EU1-16R</b>
Bahamas .....	<b>Nema 5-15R</b>	Greenland .....	*
Bahrain .....	<b>UK1-13R</b>	Grenada .....	<b>UK1-13R</b>
Bangladesh .....	<b>UK2-15R, UK3-5R</b>	Guadeloupe .....	<b>FR1-16R</b>
Barbados .....	<b>Nema 5-15R</b>	Guam .....	<b>Nema 5-15R</b>
Belgium .....	<b>FR1-16R</b>	Guatemala .....	<b>Nema 5-15R</b>
Belize .....	<b>Nema 5-15R</b>	Guinea .....	<b>FR1-16R</b>
Benin .....	<b>UK2-15R, UK3-5R</b>	Guinea-Bissau .....	<b>EU1-16R</b>
Bermuda .....	<b>Nema 5-15R</b>	Guyana .....	*
Bolivia .....	*	Haiti .....	<b>Nema 5-15R</b>
Botswana .....	<b>UK1-13R, UK2-15R, UK3-5R</b>	Honduras .....	<b>Nema 5-15R</b>
Brazil .....	<b>EU1-16R, Nema 5-15R</b>	Hong Kong .....	<b>UK1-13R, UK2-15R, UK3-5R</b>
Bulgaria .....	<b>EU1-16R</b>	Hungary .....	<b>EU1-16R</b>
Burma .....	<b>UK1-13R, UK2-15R, UK3-5R</b>	Iceland .....	<b>EU1-16R</b>
Burundi .....	<b>EU1-16R</b>	India .....	<b>UK2-15R, UK3-5R</b>
Cambodia .....	*	Indonesia .....	<b>FR1-16R</b>
Cameroon .....	<b>FR1-16R</b>	Iran .....	*
Canada .....	<b>Nema 5-15R</b>	Iraq .....	<b>UK1-13R, UK2-15R, UK3-5R</b>
Canary Islands .....	<b>FR1-16R</b>	Ireland .....	<b>UK1-13R</b>
Cape Verde, Rep. ....	<b>EU1-16R</b>	Isle Of Man .....	<b>UK1-13R</b>
Cayman Islands .....	<b>Nema 5-15R</b>	Israel .....	<b>IS1-16R</b>
Central African Rep. ....	*	Italy .....	<b>IT1-10R, IT2-16R</b>
Chad .....	<b>EU1-16R</b>	Ivory Coast .....	*
Channel Islands .....	<b>UK1-13R</b>	Jamaica .....	<b>Nema 5-15R</b>
Chile .....	*	Japan .....	<b>JA1-15R, JA1-15LR</b>
China, Peoples Rep. ....	<b>AU1-10R</b>	Jerusalem .....	<b>UK2-15R, UK3-5R, IS1-16R</b>
Columbia .....	<b>Nema 5-15R</b>	Jordan .....	<b>EU1-16R</b>
Congo, Dem. Rep. ....	<b>FR1-16R</b>	Kenya .....	<b>UK1-13R, UK2-15R, UK3-5R</b>
Costa Rica .....	*	Korea .....	<b>Nema 5-15R, EU1-16R</b>
Cyprus .....	<b>UK1-13R</b>	Kuwait .....	<b>UK1-13R</b>
Czechoslovakia .....	<b>FR1-16R</b>	Laos .....	*
Denmark .....	<b>DE1-10R</b>	Lebanon .....	*
Djibouti, Rep. ....	<b>FR1-16R</b>	Lesotho .....	*
Dominica .....	<b>UK1-13R</b>	Liberia .....	<b>UK1-13R</b>
Dominican Rep. ....	*	Libya .....	<b>IT1-10R, IT2-16R</b>
Ecuador .....	*	Luxembourg .....	<b>EU1-16R</b>
Egypt .....	<b>EU1-16R</b>	Macao .....	<b>UK2-15R, UK3-5R</b>
El Salvador .....	<b>Nema 5-15R</b>	Madagascar .....	<b>FR1-16R</b>
England .....	<b>UK1-13R</b>	Madeira .....	<b>UK2-15R, UK3-5R</b>
Equatorial Guinea .....	*	Majora Island .....	<b>FR1-16R</b>
Ethiopia .....	<b>IT1-10R, IT2-16R</b>	Malawi .....	<b>UK1-13R</b>
Faeroe Islands .....	*	Malaysia .....	<b>UK1-13R</b>
Fiji .....	<b>AU1-10R, AU2-15R</b>	Maldives .....	<b>UK2-15R, UK3-5R</b>
Finland .....	<b>EU1-16R</b>	Mali, Rep. ....	<b>FR1-16R</b>

\* See footnote on page 8



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COUNTRY	CONFIGURATION
Malta	UK1-13R
Martinique	FR1-16R
Mauritania	*
Mauritius	UK1-13R
Mexico	Nema 5-15R
Monaco	EU1-16R
Montserrat	*
Morocco	*
Mozambique	EU1-16R
Nepal	UK2-15R, UK3-5R
Netherlands	EU1-16R
Netherlands Antilles	EU1-16R
New Caledonia	*
New Zealand	AU1-10R, AU2-15R
Nicaragua	Nema 5-15R
Niger	*
Nigeria	UK1-13R, UK2-15R, UK3-5R
Northern Ireland	UK1-13R
Norway	EU1-16R
Okinawa	Nema 5-15R
Oman	UK1-13R
Pakistan	UK2-15R, UK3-5R, UK1-13R
Panama	Nema 5-15R
Papua New Guinea	AU1-10R, AU2-15R
Paraguay	*
Peru	*
Philippines	*
Poland	EU1-16R
Portugal	EU1-16R
Puerto Rico	Nema 5-15R
Qatar	UK1-13R
Rumania	EU1-16R
Rwanda	*
St. Kits-Nevis	UK1-13R
St. Lucia	UK1-13R
St. Vincent	UK1-13R
Saudi Arabia	UK1-13R, NEMA 5-15R
Scotland	UK1-13R
Senegal	EU1-16R
Seychelles	UK1-13R
Sierra Leone	UK1-13R
Singapore	UK1-13R
Somalia	UK2-15R, UK3-5R
So. Africa / Namibia	UK2-15R, UK3-5R
Spain	*
Sri Lanka	UK2-15R, UK3-5R
Sudan	UK1-13R
Suriname	EU1-16R
Swaziland	UK2-15R, UK3-5R
Sweden	EU1-16R
Switzerland	SW1-10R
Syria	EU1-16R

COUNTRY	CONFIGURATION
Tahiti	Nema 5-15R
Taiwan	Nema 5-15R
Tanzania	UK1-13R, UK2-15R, UK3-5R
Thailand	*
Togo	FR1-16R
Tonga	*
Trinidad & Tobago	Nema 5-15R
Tunisia	*
Turkey	EU1-16R
Uganda	UK1-13R
USSR	EU1-16R †
United Arab Rep.	UK1-13R
Upper Volta	*
Uruguay	*
Venezuela	*
Virgin Islands	Nema 5-15R
Wales	UK1-13R
Western Samoa	*
Yemen (Aden)	UK1-13R, UK2-15R, UK3-5R
Yemen (Arab Rep.)	UK1-13R, UK2-15R, UK3-5R
Yugoslavia	EU1-16R
Zambia	UK1-13R
Zimbabwe	UK1-13R

† New countries in the former USSR region use 4.8 mm or 4.0 mm diameter pin size plugs and some 2 pin configurations.

\* Various plug / receptacle configurations are used in these countries. Recommend page 6 be faxed to your client for configuration selection and approval.

### NOTE:

The primary configuration for each country is listed *FIRST* in the above tables.

Example ..... Primary, Secondary  
Australia ..... AU1-10R, AU2-15R

The primary configuration represents the preponderance of usage in that country. In some countries the CLASS 2 (UK2-15R TYPE) is the primary configuration. When this occurs, the configuration is listed first in the above tables.

The information and recommendations presented here were compiled from a large number of sources. There is consequently some possibility of error or omissions for which International Configurations, Inc. cannot assume responsibility. The information presented here should not be taken as final in the case of industrial or highly specialized commercial installations.

