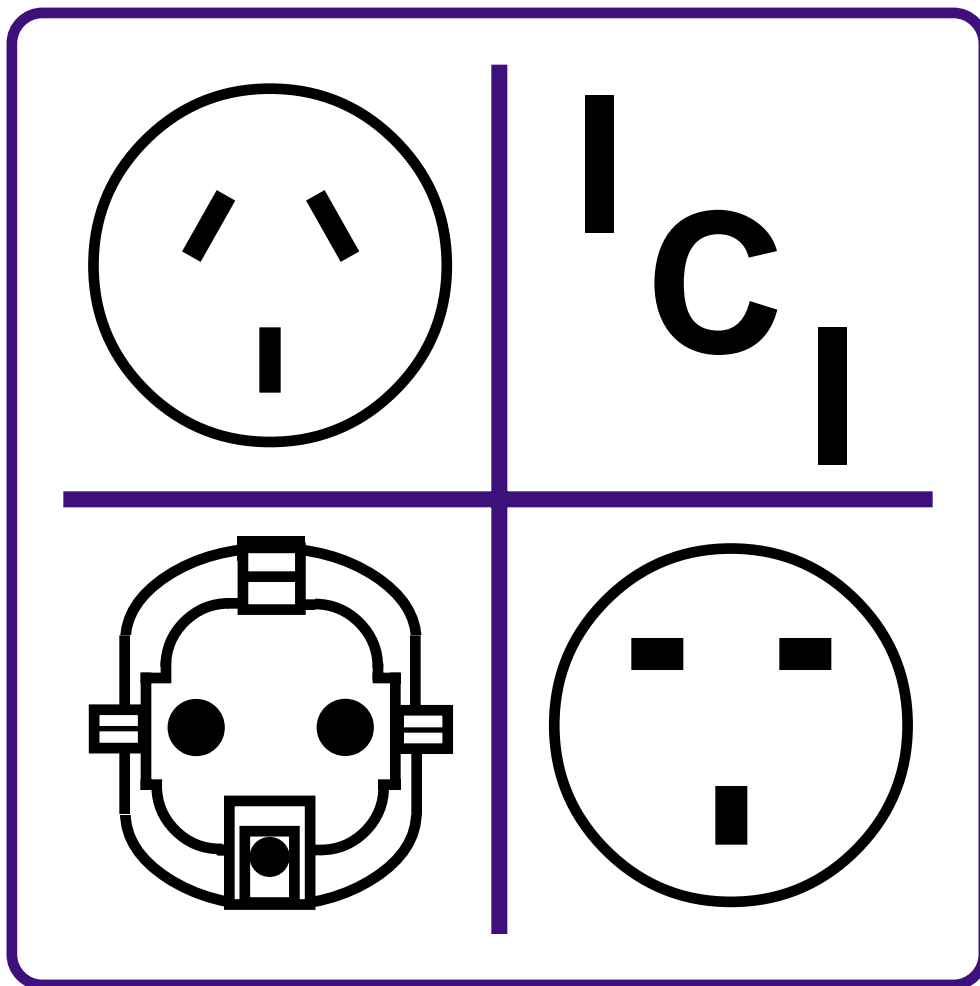


International Wiring Devices and Accessories

Catalog No. 20



INTERNATIONAL CONFIGURATIONS, INC.

P.O. BOX 3374 • ENFIELD, CONNECTICUT 06083

TEL: (860) 749-6380 • FAX: (860) 749-2985

TABLE OF CONTENTS

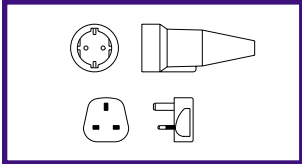
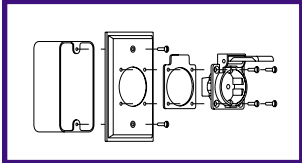
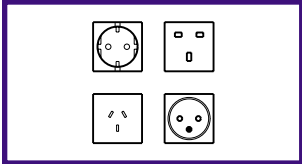
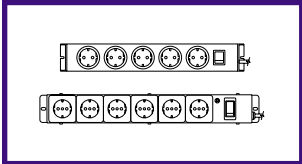
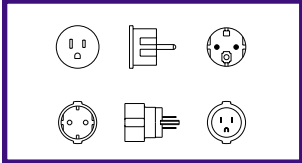
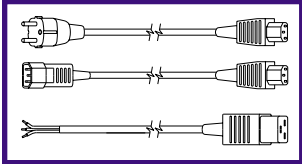
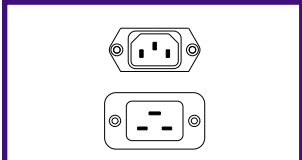
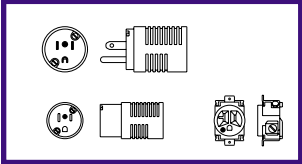
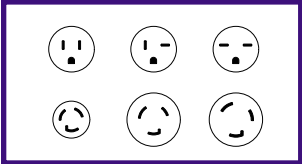
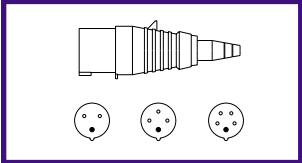
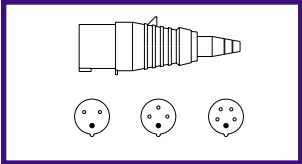
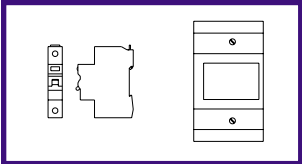
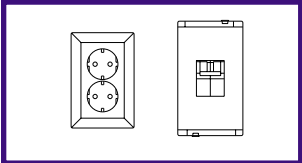
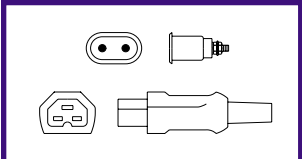
Products	Catalog Section	Page Numbers
	Introduction	4 - 8
	A International Plugs, Receptacles, Connectors, Inlets	9 - 30
	B International Splashproof and Watertight Receptacles	31 - 36
	C International Modular Snap-In Receptacles, Pilot Lights, Switches	37 - 50
	D International Multiple Outlet Power Strips, Surge Suppression Strips	51 - 62
	E International Plug Adapters, Step-Down Transformers	63 - 72
	F International Cord Sets, Cordage, Strain Reliefs	73 - 88
	G IEC 320 Inlets, Outlets, Plugs, Connectors	89 - 112



TABLE OF CONTENTS

Products	Catalog Section	Page Numbers
	H Hospital Grade Devices	113 - 118
	I NEMA Plugs, Receptacles, Inlets, Connectors	119 - 134
	J IEC 309 - CEE 17 UL / CSA / European Plugs, Receptacles, Connectors	135 - 142
	K IEC 309 - CEE 17 European Plugs, Receptacles, Connectors	143 - 162
	L GFCI (RCD) Breakers, Light Fixtures, Circuit Breakers	163 - 166
	M RV & Motor Home Devices	167 - 172
	N High Temperature Plugs, Inlets, Connectors	173 - 178



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.

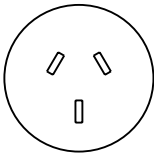
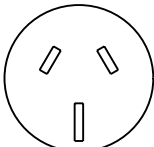
Some countries use two or three different configurations for general use 2 pole-3 wire grounding applications and our configuration identification system identifies the primary configuration (preponderance of usage) in bold type.

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)
AU1-10R		10A 250V	AU	1	10	R
AU2-15R		15A 250V	AU	2	15	R

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

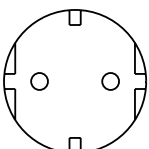
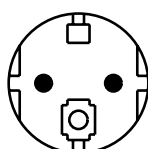
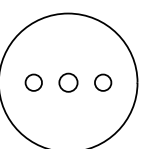
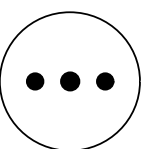

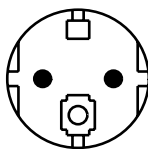
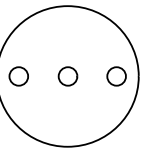
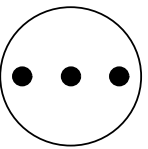
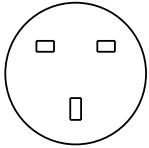
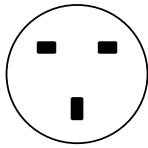
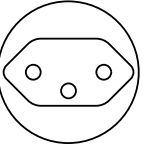
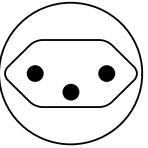
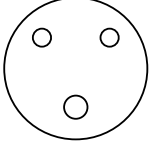
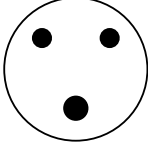
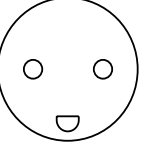
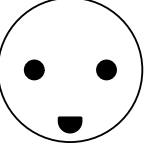
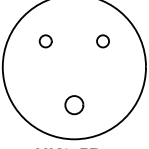
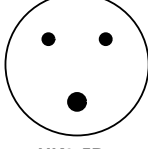
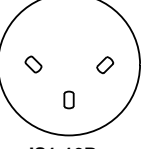
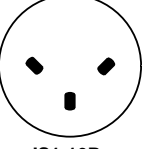
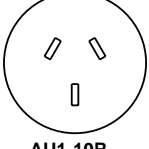

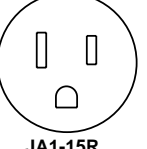
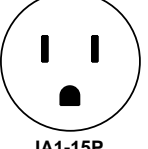




NOTE: IEC 309 - CEE 17 Pin / Sleeve devices are recognized or acceptable in most countries of the world for heavy-duty applications. Please refer to the IEC 309 - CEE 17 catalog section for information on these products.

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	 IT1-10R	 IT1-10P
 FR1-16R	 EU1-16P	 IT2-16R	 IT2-16P
 UK1-13R	 UK1-13P	 SW1-10R	 SW1-10P
 UK2-15R	 UK2-15P	 DE1-10R	 DE1-10P
 UK3-5R	 UK3-5P	 IS1-16R	 IS1-16P
 AU1-10R	 AU1-10P	 JA1-15R	 JA1-15P
 AU2-15R	 AU2-15P	 JA1-15LR	 JA1-15LP

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.



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

* See footnote on page 8



© 1998 International Configurations, Inc. Entire contents of this catalog copyrighted.

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.

