

# Guide to Worldwide Plug/Socket Patterns & Power Mains (single phase)

The most frequently specified plug pattern for electrical or electronic equipment will appear in bold type. Note that the information provided for developing countries is not precise. The data given for single phase voltages and frequencies are nominal and are subject to a standard tolerance of 10%, but in some areas—particularly in developing countries—tolerances may be much greater. The information was compiled from several sources, including the BSI publications "World Electricity Supplies" and "Electrical Plugs and Wiring". Information current as of the time of publication. Subject to change without notification. Call our Customer Service Department for current information.

Country	Voltage	Freq./Hz	Pattern	Country	Voltage	Freq./Hz	Pattern	Country	Voltage	Freq./Hz	Pattern	Country	Voltage	Freq./Hz	Pattern	Country	Voltage	Freq./Hz	Pattern				
<b>Afghanistan</b>	220	50	A, B	Chile	220	50	A, B, I	Grenada	230	50	D, G	Luxembourg	230	50	A, B	Paraguay	220	50	A, B	Sweden	230	50	A, B
Algeria	220	50	A, B, F	China, People's Rep. of	220	50	X	Guadeloupe	220	50/60	B, F	Macao	220	50	D, G	Peru	220	60	A, B	Switzerland	230	50	L
American Samoa	120/220	60	C, K, N, M	Christmas Is. (Austral.)	240	50	C	Guam	120/240	60	K, N	Madagascar	110/220	50	B, F	Philippines	220	60	K, N	Syria	220	50	A, B, F
Angola	220	50	A, B	Cocos Is. (Austral.)	240	50	C	Guatemala	110/220	60	K, N	Malawi	230	50	D, G	Pitcairn Is. (U.K.)	240	50	G	Taiwan	110/220 & 220	60	A, B, F, K, N
Anguilla (U.K.)	120/240	60	D	Colombia	120	60	K, N	Guinea	220	50	B, F	Malaysia	240	50	D, G	Poland	230	50	A, B, F	Tanzania	230	50	D, G
Antigua	120/240	60	D, K, N	Congo, Rep. of	220-240	50	A, B, F	Guinea-Bissau	220	50	A, B	Maldives	220	50	D, G	Portugal	230	50	A, B	Thailand	220	50	A, B, K, N
Argentina	220	50	T	Cook Is. (N.Z.)	240	50	C, P	Guyana	120/240	50-60	D, G, K, N	Mali, Rep. of	220	50	B, F	Puerto Rico	120	60	K, N	Togo	230	50	B, F
Armenia	220	50	A, B	Costa Rica	120/240	60	D, K, N	<b>Haiti</b>	110/220	60	K, N	Malta	230	50	D	<b>Qatar</b>	240	50	D, G	Tonga	240	50	C, P
Aruba	127/220	60	A, B, K, N	Croatia	230	50	A, B	Honduras	110/220	60	K, N	Martinique	230	50	B, F	Romania	230	50	A, B	Trinidad & Tobago	115/230	60	K, N
Australia	230	50	C, P	Cuba	115/230	60	A, B, K, N	Hong Kong	220	50	D, G	Mauritania	220	50	A, B	Russia Federation	220	50	A, B	Tunisia	220	50	A, B, F
Austria	230	50	A, B	Curacao Is.	110/220	60	A, K, N	Hungary	230	50	A, B	Mauritius	230	50	D, G	Rwanda	220	50	A, B, L	Turkey	220	50	A, B, D, G
Azores (Portugal)	230	50	A, B	Cyprus	230	50	D, G	<b>Iceland</b>	230	50	A, B	Mexico	127	60	K, N	<b>Saudi Arabia</b>	127/220	60	A, D, F, G, K	Uganda	240	50	D, G
<b>Bahamas</b>	120	60	B, K, N, G, D	Czech., Rep. of	230	50	B, F	India	230	50	G	Moldova	220	50	A, B	Scotland	230	50	D	Ukraine	220	50	A, B
Bahrain	230/240	50	D, G	<b>Denmark</b>	230	50	B, E	Indonesia	220	50	A, B, F	Monaco	220	50	A, B, F	Senegal	220	50	F, G	United Arab Emir.	220-240	50	D, G
Bangladesh	230	50	D, G	Djibouti, Rep. of	220	50	B, F	Iran	220	50	A, B	Mongolia	220	50	A, B	Seychelles	230	50	D, G	United Kingdom & Ire.	230	50	D, G
Barbados	115	50	K, N	Dominica	230	50	D, G	Iraq	220	50	A, B, D, G	Montseurrat	230	60	D, K, N	Sierra Leone	230	50	D, G	United States	120	60	K, N
Belarus	220	50	A, B	Dominican Rep.	120/240	60	K, N	Ireland, Rep. of (S.)	230	50	D	Morocco	220	50	A, B, F	Singapore	230	50	D, G	Uruguay	220	50	A, B, C*, I
Belgium	230	50	B, F	<b>Ecuador</b>	110	60	K, N	Israel	230	50	B, H	Mozambique	220	50	A, B, G	Slovakia	230	50	B, F	<b>Venezuela</b>	120/208/277	60	K, N
Belize	110/220	60	K, N, G	Egypt	220	50	A, B, D	Italy	230	50	B, I	Myanmar (formerly Burma)	230	50	D, G	Slovenia	220	50	A, B	Vietnam	220	50	B, F, K, N
Benin	220	50	A, N	El Salvador	120, 240	60	K, N	Ivory Coast	230	50	A, B	<b>Namibia (W.S.Africa)</b>	220	50	D, G	Somalia	110/220-230	50	B, G	Virgin Islands	120	60	K, N
Bermuda	120	60	K, N	England	230	50	D, G	<b>Jamaica</b>	110	50	K, D, G	Nepal	220	50	G	South Africa	220-250	50	D, G	Wales	230	50	D, G
Bolivia	230	50	A, B, K, N	Equatorial Guinea	220	50	B	Japan	100	50 & 60	J, M	Netherlands	230	50	A, B	Spain	230	50	B, F	Western Samoa	230	50	C
Bosnia-Herzegovina	220	50	A, B	Estonia	220-330	50	A, B	Jordan	230	50	A, B, D	Neth. Antilles	115-127/220	50/60	A, B, K	Sri Lanka	230	50	D, G	<b>Yemen</b>	250	50	D, G
Botswana	230	50	D, G	Ethiopia	230	50	A, B, I	Kenya	240	50	D, G	New Caledonia	220	50	B, F	St. Pierre & Miquelon (Fr.)	115	60	K, N	Yugoslavia	230	50	A, B
Brazil	127-220	60	B, K, N, O	<b>Fiji</b>	240	50	C, P	Kuwait	230	50	D, G	New Zealand	230	50	C, P	St. Kitts & Nevis	230	60	D, G	<b>Zaire, Rep. of</b>	220-240	50	A, B, F
Bulgaria	220	50	A, B	Finland	230	50	A, B	Kyrgyzstan	220	50	A, B	Nicaragua	120/240	60	K, N	St. Lucia	240	50	D	Zambia	230	50	D, G
Burkina Faso	220/230	50	D, G	France	230	50	B, F	<b>Laos</b>	220	50	A, B, F, K, N	Niger	220	50	A, B	St. Vincent	230	50	D	Zimbabwe	220-230	50	D, G
Burundi	220	50	A, B	French Guiana	220	50	B, F	Latvia	220	50	A, B	Nigeria	230	50	D, G	Sudan	240	50	B, D, G				
<b>Cambodia</b>	220	50	A, B	<b>Gabon</b>	220	50	B, F	Lebanon	220	50	A, B, D, G	North Ireland	230	50	D	Suriname	127/220	60	A, B, K, N				
Cameroon	220-260	50	B, F	Gambia	220	50	D, G	Lesotho	220	50	D, G	Norway	230	50	A, B	Swalbard (Norway)	220	50	A, B				
Canada	120	60	K, N	Germany	230	50	A, B	Liberia	220-230	50	A, N, K	<b>Oman</b>	240	50	A, B, D, G	Swaziland	230	50	D, G				
Canary Islands (Spain)	220	50	A, B, F	Ghana	220	50	D, G	Libya	220	50	A, G, K, N	<b>Pakistan</b>	230	50	G								
Cape Verde, Rep. of	220	50	A, B	Gibraltar	240	50	D, G	Liechtenstein	230	50	L	Panama	120/240	60	K, N								
Cayman Islands	120	60	K, N	Greece	230	50	A, B	Lithuania	230	50	A, B	Papua New Guinea	240	50	C, P								
Central African Rep.	220	50	A, B	Greenland (Den.)	230	50	B, E																
Chad	220	50	A, F, B																				
Channel Islands	240	50	B, D																				

\* This country uses the Australia standard with modifications. The contacts are approximately 1mm longer than the Australian (18.2mm).

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<p><b>Cont. Europe (Schuko)</b> CEE 7</p> <p>plug: 88010801 socket: 88010610 cordset: 86230110</p>	<p><b>Australia/New Zealand</b> AS/NZS 3112</p> <p>plug: 88010713 socket: 88010512 cordset: 86210030</p>	<p><b>Denmark</b> Afsnit 107-2-D1</p> <p>plug: 88010741 socket: 88010541 cordset: 86391000</p>	<p><b>India/South Africa</b> BS 546 (old British standard)</p> <p>plug: 88010763 socket: 88010561 cordset: 86392000</p>	<p><b>Italy</b> CEI 23-50</p> <p>plug: 88010771 socket: 88010572 cordset: 86394000</p>	<p><b>North America</b> NEMA 5-15</p> <p>plug: 88030100 socket: 88010641 cordset: 70401020244</p>	<p><b>Japan</b> Ungrounded</p> <p>plug: not available socket: not available cordset: 86532140</p>	<p><b>Australia</b> Ungrounded</p> <p>plug: not available socket: 88010512 cordset: 86532110</p>	<p><b>China</b> GB 2099-1 &amp; GB 1002-1</p> <p>plug: not available socket: not available cordset: 86517040</p>
<p><b>Europlug</b> CEE 7/16</p> <p>plug: 88040030 socket: See A, E, F, I, &amp; L cordset: 86532100</p>	<p><b>United Kingdom/Ireland</b> BS 1363</p> <p>plug: 88040011 socket: 88010621 cordset: 86240150</p>	<p><b>France/Belgium</b> CEE 7</p> <p>plug: 88010801 socket: 88010550 cordset: 86230110</p>	<p><b>Israel</b> SI 32</p> <p>plug: 88010780 socket: 88010580 cordset: 86393000</p>	<p><b>Japan</b> JIS 8303</p> <p>plug: not available socket: not available cordset: 86589000</p>	<p><b>Switzerland</b> SEV 1011</p> <p>plug: 88010732 socket: 88010530 cordset: 86396000</p>	<p><b>North America</b> NEMA 1-15</p> <p>plug: not available socket: 88010641 cordset: 86532120</p>	<p><b>Argentina</b> IRAM 2073</p> <p>plug: not available socket: not available cordset: 86270010</p>	<p><b>Brazil</b> NBR 14136</p> <p>plug: 88040200 socket: not available cordset: 86286110</p>