

Regulatory / Safety Approval Mark



Name 国家名	Abbreviation 缩写	Mark 标记	Plug Pattern 插头模式	Voltage / Hz 电压 / 频率
Argentina (阿根廷)	IRAM			220V / 50Hz
Australia (澳大利亞)	C-Tick RCM Standard			230V / 50Hz <i>*Outlets typically controlled by adjacent switch. Though nominal voltage has been officially changed to 230V, 240V is within tolerances and commonly found</i>
Austria (奧地利)	OVE			230V / 50Hz
Belgium (比利时)	CEB			230V / 50Hz
Brazil (巴西)	UC			110 / 220V 60Hz


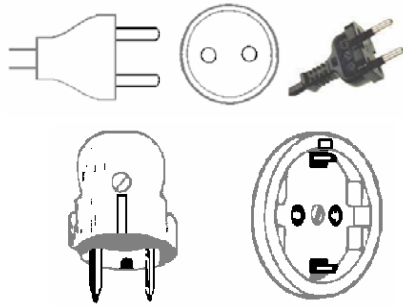

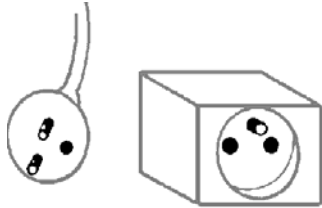

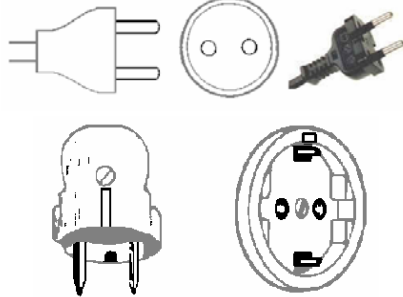

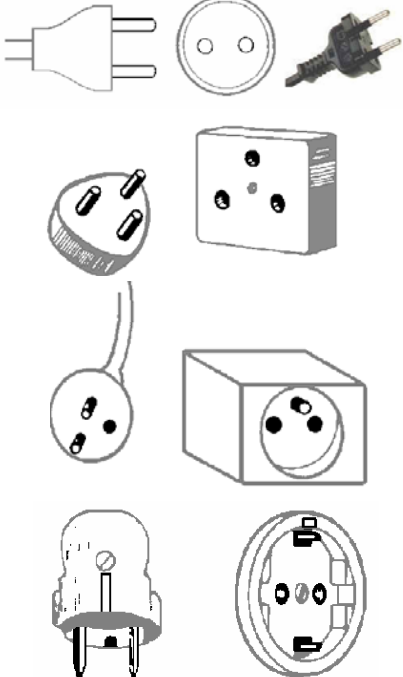
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Canada (加拿大)	CSA			120V / 60Hz
China (中国)	CQC / CSBTS			220V / 50Hz The "official" plug type is like type A but slightly shorter and without holes in blades. Type A and I outlets are common, and Type G might also be found.
Croatia (克羅地亞)				230V / 50Hz
Czech Republic (捷克)	EZU			230V / 50Hz
Denmark (丹麥)	DEMKO			220V / 50Hz Denmark's connectors have slight differences from those used elsewhere. While pin diameter and spacing is standard, outlets may have different housing depths which could interfere with standard adaptors -- one report says this is due to "childproofing." Also, Plug C fits into K-type outlets (but not vice versa).

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Finland (芬兰)	FIMKO			230V / 50Hz
France (法国)	AFNOR			230V / 50Hz Type C plugs may be found on some appliances, and will fit the Type E outlet. Type C outlets may be found in older buildings. Type A may be found in older buildings but is illegal.
Germany (德国)	VDE			230V / 50Hz
Greece (希腊)	ELOT			220V / 50Hz


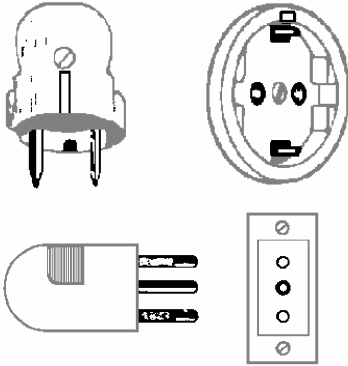

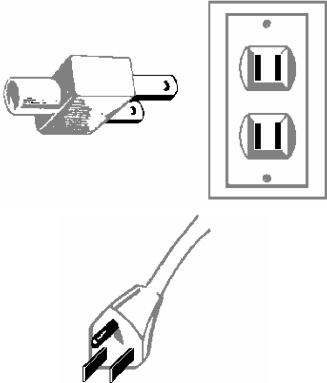

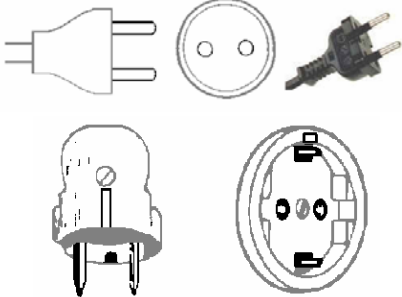



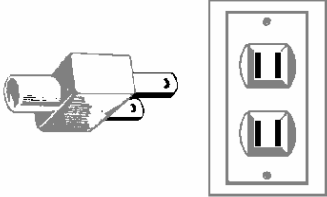
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Hong Kong (香港)	HK			220V / 50Hz Type D replaced by Type G but still found.
Hungary (匈牙利)	MEEI			230V / 50Hz
India (印度)	BIS			240V / 50Hz
Ireland (爱尔兰)	NSAI			230V / 50Hz
Israel (以色列)	SII			230V / 50Hz *Many (but not all) modern electric outlets in Israel have larger holes that accept both Type H and C plugs. Some extension cords and older outlets accept only the Type H plug. One correspondent estimates a 50-70% chance that a randomly selected outlet will accept Type C

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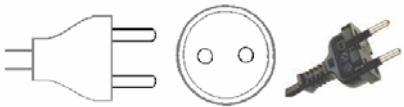

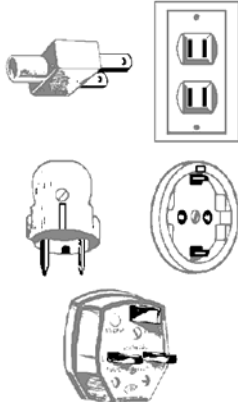

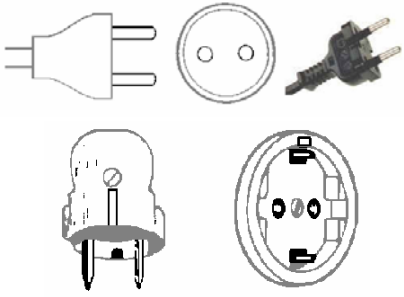



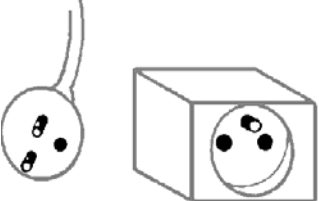


<p>Italy (意大利)</p>	<p>IMQ / UNI</p>			<p>230V / 50HZ Type C may also be found. Type L plugs/outlets may have different pin spacing. The smaller and closer pins are for a rated current of 10 A, the bigger and wider pins are for a rated current of 16 A. Both kinds are currently used and comply to the relevant Italian (CEI) regulations. Some outlets have overlapping holes to accept either older or newer types.</p>
<p>Japan (日本)</p>	<p>JIS / DENAN</p>			<p>100V / 50-60Hz Eastern Japan 50 Hz (Tokyo, Kawasaki, Sapporo, Yokohama, and Sendai); Western Japan 60 Hz (Osaka, Kyoto, Nagoya, Hiroshima)</p>
<p>Korea, S (南韓)</p>	<p>KTIL</p>			<p>220V / 60Hz *Type F likely to be found in offices and hotels. 110V power with plugs A & B was previously used but is being phased out. Older buildings may still have this, and some hotels offer both 110V and 220V service.</p>
<p>Malaysia (马来西亚)</p>	<p>DSM</p>			<p>240V / 50Hz</p>
<p>Mexico (墨西哥)</p>	<p>NOM</p>			<p>127V / 60Hz</p>

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Netherland (荷兰)	KEMA			230V / 50Hz
New Zealand (纽西兰)	NZSS / SNZ			230V / 50Hz
Norway (挪威)	NEMKO			220V / 50Hz
Poland (波兰)	PCBC			220V / 50Hz
Portugal (葡萄牙)	CERTIF			220V / 50Hz

Russia (俄罗斯)	GOST_R			220V / 50Hz A correspondent notes: "Plug type E can also be used (because the mains outlets do not have the protruding pin). Plug type F can sometimes be used but with reservation because in many places the mains outlet will not allow to connect such plug as the outlets have smaller hole diameters than F-plug pins."
Saudi Arabia (沙特阿拉伯)	SASO			127V / 220V 60Hz
Serbia and Montenegro (前南斯拉夫)	SZS			220V / 50Hz
Singapore (新加坡)	PSB			230V / 50Hz Type A adaptors are widely available from shops as an extension set of 2 to 5 sets of sockets; most commonly used for audio and video equipment.
Slovakia (斯洛伐克)	EVPU			230V / 50Hz


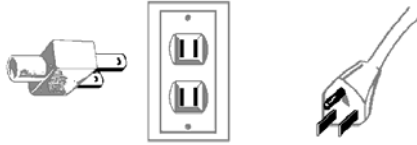

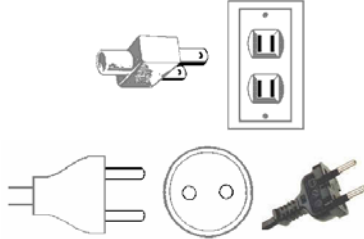

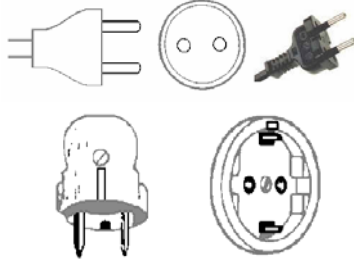

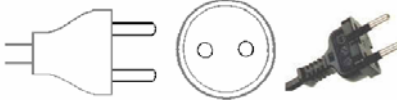


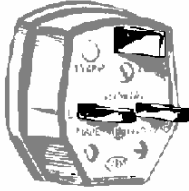

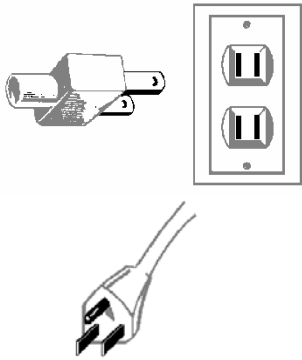
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Slovenia (斯洛文尼亞)	SIQ			220V / 50Hz
South Africa (南非)	SABS			220V /230V 50Hz *Grahamstad & Port Elizabeth 250V; also found in King Williams
Spain (西班牙)	UNE AENOR			230V 50Hz
Sweden (瑞典)	SEMKO			220V / 50Hz
Switzerland (瑞士)	SEV / S+			230V / 50HZ Type C plugs are common on appliances, and will fit the Type J outlet. 低電壓產品必須符合低電壓電子產品(NEV)的法令。在低電壓電子產品銷售到瑞士市場上之前廠商可先申請 S+ 安全標誌。

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Taiwan (台湾)	MOEA	 12345678		110V / 60Hz
Thailand (泰国)	TISI			220V / 50Hz *Some outlets are a combination of type A and C and can accept either type plug.
Turkey (土耳其)	TSE			230V / 50Hz
Ukraine (乌克兰)	UKRSEPRO	 YkpTECT - 005		220V / 50Hz
United Kingdom (英国)	BSI / BEAB / ASTA	 		230V / 50Hz *Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found
U.S.A. (美国)	UL			120V / 60Hz

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Belarus (白俄羅斯)	STB			
Global	CB scheme			

Europe (欧洲)

	CE mark: Product comply with relevant EC-directives such as Low Voltage directive EMC directive and Machinery directive etc.
	Keymark : A European certification mark which indicated a product complies with European harmonised safety standard.
◁ HAR ▷	HAR mark: Low voltage cables that conform to the harmonized European standards which under HAR agreement.
	CECC mark: Product conforms to the European CECC specification.

Remark:

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Information sources:

Pattern image: Panel Components Corporation.

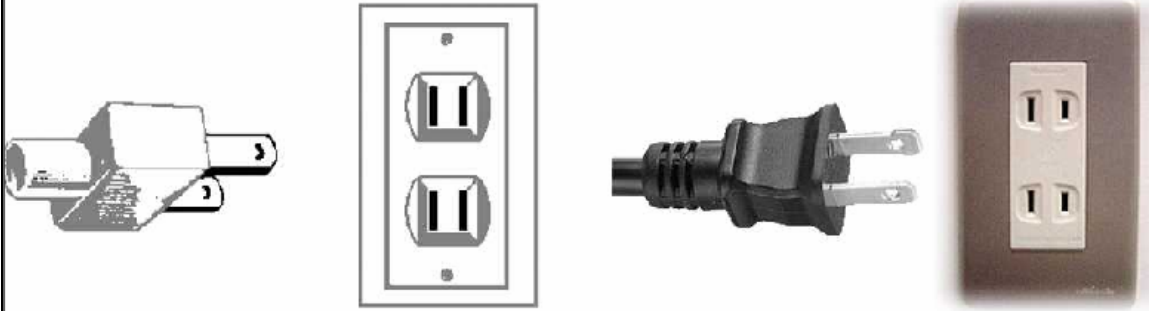
Others: TUV Rheinland / ISO / World Standard Service Network.

Prepared by Kay & Eric.

Last updated on 25 May 2000.

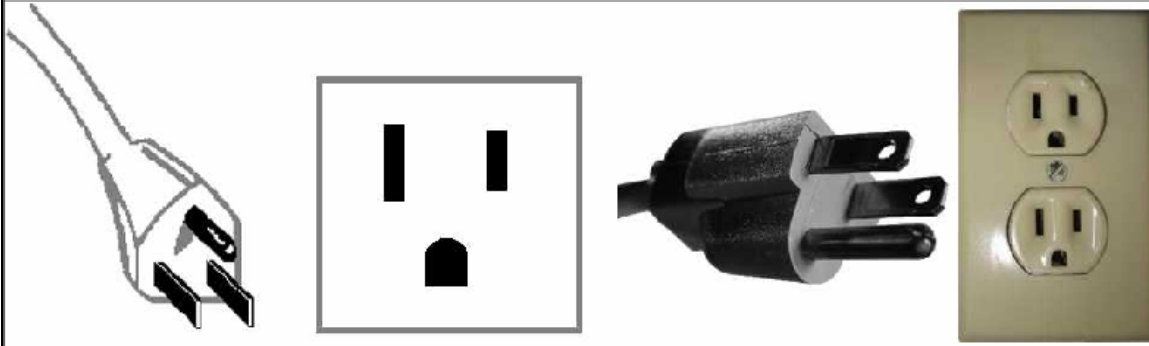
TYPE A

used in, among others, North and Central America and Japan)



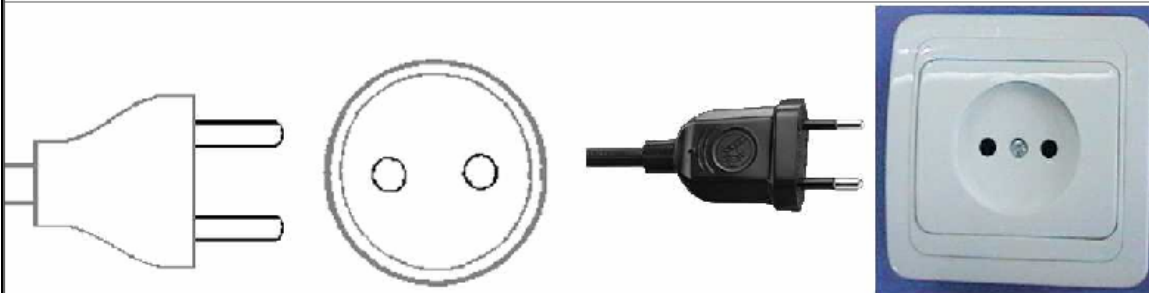
TYPE B

used in, among others, North and Central America and Japan)



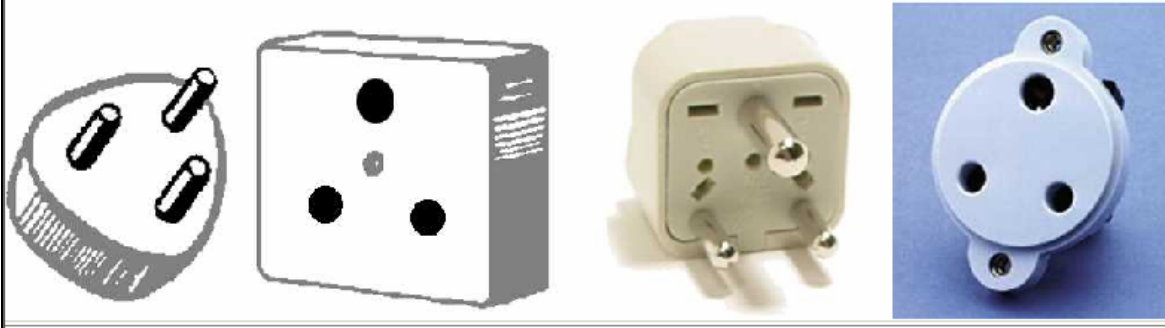
TYPE C

used in all countries of Europe except the United Kingdom, Ireland, Cyprus and Malta)



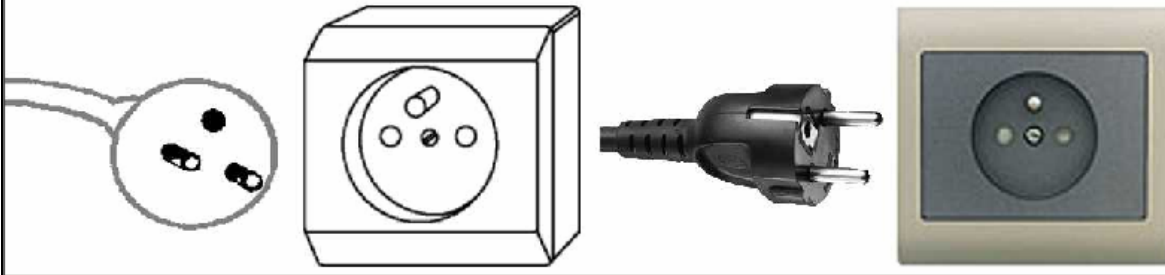
TYPE D

used almost exclusively in India, Sri Lanka, Nepal and Namibia)



TYPE E

primarily used in France, Belgium, Poland, Slovakia, the Czech Republic, Tunisia and Morocco)



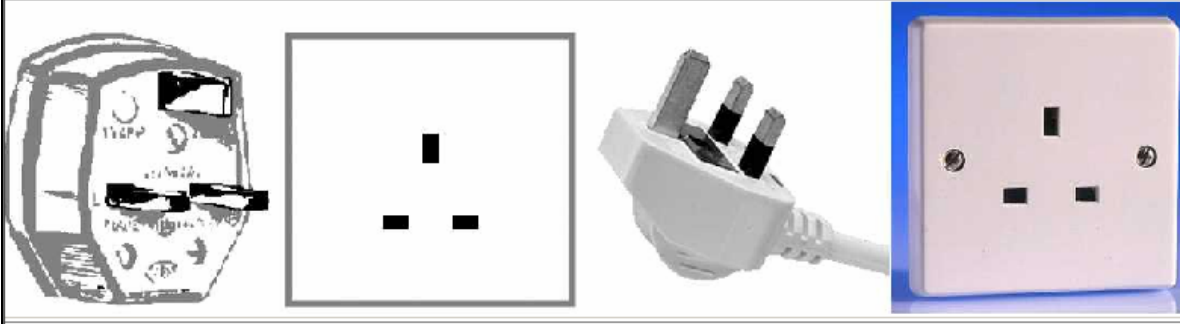
TYPE F

used in, among others, Germany, Austria, the Netherlands, Sweden, Norway, Finland, Portugal, Spain and Eastern Europe)



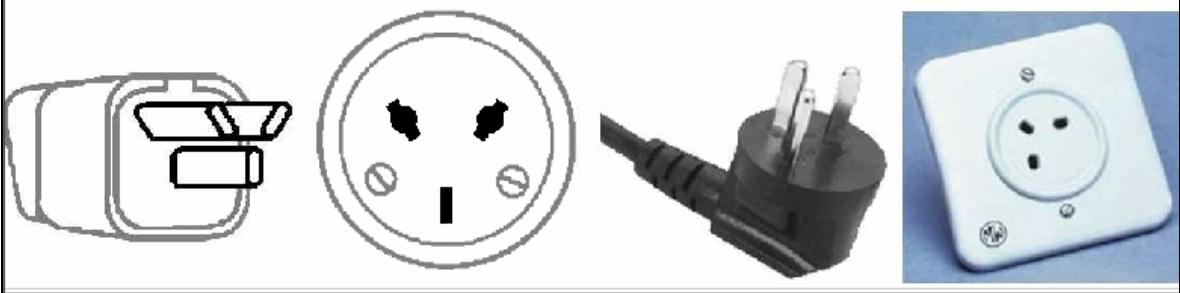
TYPE G

mainly used in the United Kingdom, Ireland, Cyprus, Malta, Malaysia and Singapore)



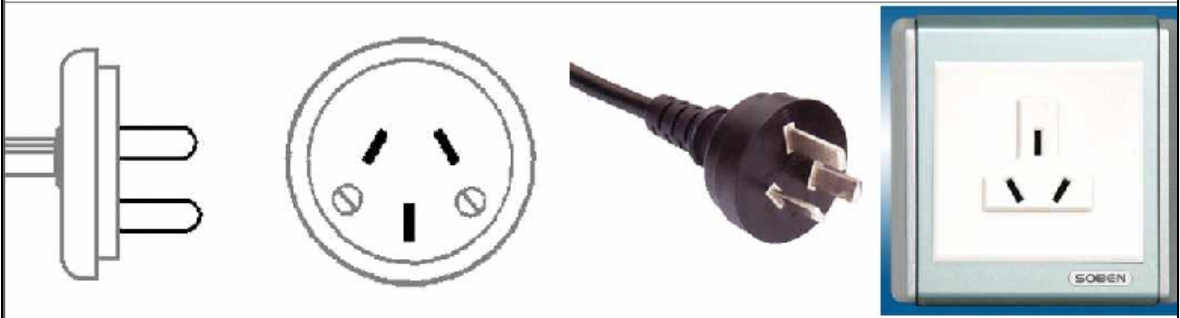
TYPE H

used exclusively in Israel)



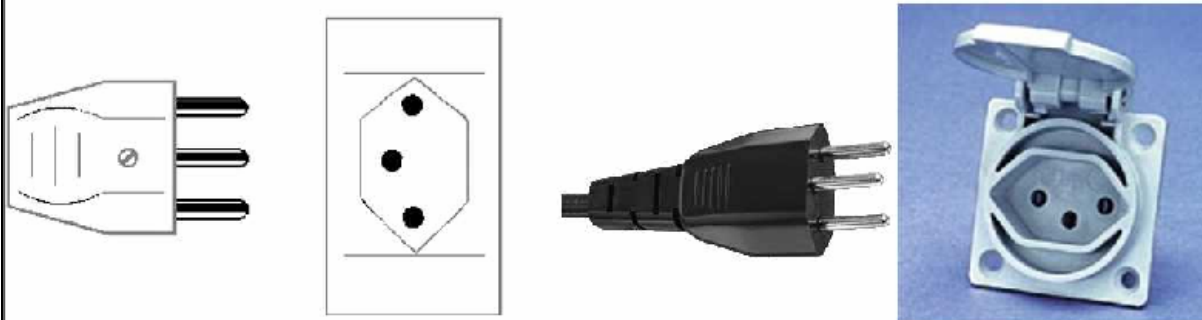
TYPE I

mainly used in Australia, New Zealand and Papua New Guinea)



TYPE J

used almost exclusively in Switzerland and Liechtenstein)



TYPE K

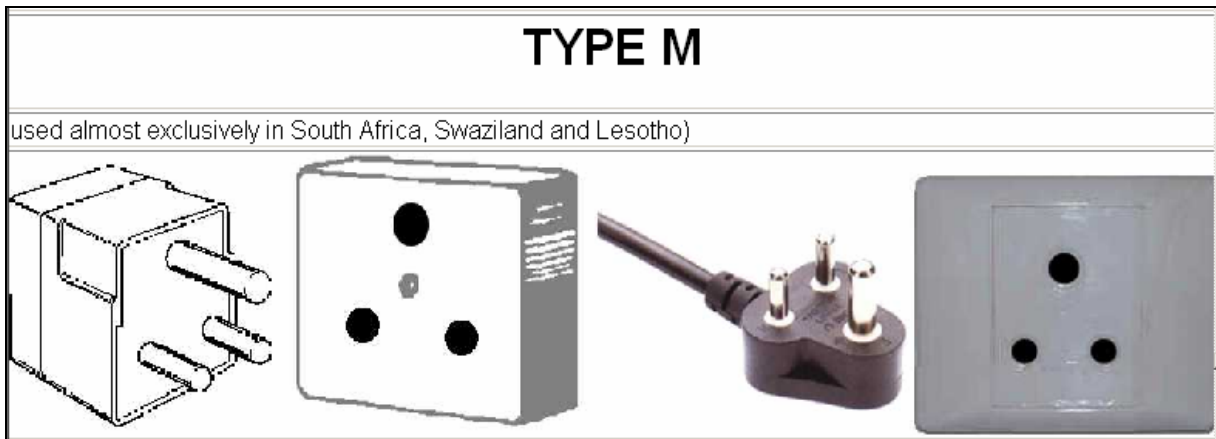
used almost exclusively in Denmark and Greenland)



TYPE L

used almost exclusively in Italy and randomly found throughout North Africa)





- 歐盟成員國有 **25** 個，以上用紅字標注。

法国、联邦德国、意大利、荷兰、比利时、卢森堡、英国、丹麦、爱尔兰、希腊、西班牙、葡萄牙、奥地利、瑞典、芬兰、塞浦路斯、匈牙利、捷克、爱沙尼亚、拉脱维亚、立陶宛、马耳他、波兰、斯洛伐克、斯洛文尼亚

- CB 成員國 **43** 個，以上用藍字標注。

阿根廷，澳大利亞，奧地利，白俄羅斯，比利時，巴西，加拿大，中國，捷克，丹麥，芬蘭，法國，德國，希臘，匈牙利，印度，愛爾蘭，意大利，日本，韓國，馬來西亞，墨西哥，荷蘭，新西蘭，挪威，波蘭，葡萄牙，羅馬尼亞，俄羅斯，塞爾維亞，新加坡，斯洛伐克，斯洛文尼亞，南非，西班牙，瑞典，瑞士，泰國，土耳其，烏克蘭，英國，美國。

- 如果同屬歐盟和 CB 成員國，以上用**紫色**標識注。