

Public reference • Not product approval

Global Plug, Socket & Fuse Safety Baseline

One evidence-aware Power Ready reference for consumers, suppliers, manufacturers and AI.

01 / Check four things before connecting

A plug fitting into a socket does not establish compatible voltage, earthing, fuse protection or safe use. Start with the actual destination and product configuration.

- 1

Destination / point of use
- 2

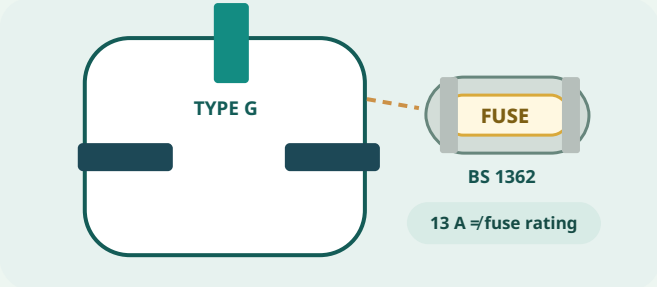
Plug and socket family
- 3

Voltage, frequency and nameplate
- 4

Fuse, earthing and compliance evidence

Fits ≠ safe to use

02 / Critical safety attribute: the fuse inside a 13A plug



Original schematic • Not to scale / not wiring instructions

For applicable BS 1363 rectangular-pin 13A plugs in Hong Kong, the fuse is a safety feature, not a decoration. Verify it alongside the standard, cord and actual load.

Plug rating: 13A

This does NOT mean every fuse must be 13A

Typical fuse-link standard: BS 1362

The plug fuse primarily protects the flexible cord against overcurrent; it does not replace earthing, circuit breakers or whole-product safety measures.

03 / Common global plug families • 15 descriptive labels

A–O are convenient form-factor labels, not certifications that every country has identical outlets, ratings or protective devices. The sketches show contact arrangements conceptually, not manufacturing dimensions.

Type A
A • two flat pins

Type B
B • flat pins + earth

Type C
C • two round pins

Type D
D • three round pins, triangular

Type E
E • round pins + earth hole

Type F
F • round pins + side earth

Type G
G • rectangular pins, commonly fused

Common fused-plug design

Type H
H • three round pins

Type I
I • angled flat pins, optional earth

Type J
J • Swiss three-round-pin style

Type K
K • round pins + earth

Type L
L • three inline round pins

Type M
M • large three-round-pin pattern

Type N
N • triangular three-round-pin pattern

Type O
O • Thai three-round-pin pattern

Do not infer other countries’ fuse duties from this example

04 / Supply-to-use example: Mainland China → Hong Kong

Supplied from Mainland China

Type I_{220V / 50Hz}

→

Used in Hong Kong

Type G_{220V / 50Hz}

Illustrative nominal values • Not measured onsite

Although common household references for both places are about 220V / 50Hz, Type I and Type G interfaces and applicable product-safety conditions differ. Delivery requires the destination SKU, power cord/plug, suitable fuse, nameplate, protective construction and safety documents to be checked.

Prefer a manufacturer-supported, reviewed destination-ready version over leaving the buyer to improvise with a universal adaptor.

05 / One plug family does not imply one legal rule

Only scoped official references are shown here. Assess the jurisdiction, product category and act of supply independently.

Jurisdiction	What scoped official evidence supports	Still to verify
Hong Kong	EMSD guidance identifies fused BS 1363 13A plugs/extension assemblies, required markings and associated standards.	Verify actual model, scope, fuse/cord, CSC and supply circumstances.
United Kingdom	Official regulations address BS 1363 plugs and BS 1362 fuses chosen according to manufacturer instructions in specified plug/lead arrangements.	Check current applicable edition, product class and conversion-plug exceptions.
Singapore	The regulator describes the 13A three-pin fused plug (Type G) and separately lists standards for 13A plugs and plug fuses.	Check SS 145-1, SS 167 and the relevant controlled-goods route.
Other jurisdictions	Specific national fuse-in-plug obligations have not been individually reviewed.	Unknown is not exempt; research current local standards and supply rules.

Important exception: a plug is not an adaptor. Hong Kong EMSD guidance distinguishes one/two-socket 13A adaptors from multiway adaptors with more sockets; their fuse conditions differ.

Check the physical product: presence of fuse, applicable specification, marked fuse rating, plug model, conductor size and supporting evidence. Never bypass a fuse or substitute an inappropriate rating.

06 / Four protection layers that must remain separate

Fuse inside the plug	Fixed-installation circuit protection
Protective earth / double insulation	USB-C PD and device-side protection

Each protects a different part of the system. A conforming 13A plug does not prove that the connected GenAI device can run unattended around the clock.

13A ≠ 13A fuse This does NOT mean every fuse must be 13A	3 / 249 HK • GB • SG / Scoped first references	0 Actual SKU / site / work approvals
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07 / Same edition: human-readable and AI-downloadable

The machine record retains plug_type, rated_current_A, fuse_presence_required, fuse_link_standard, fuse_rating_A, scope, evidence_source_ids and review_status. Unknown values remain null and cannot be converted into approval.

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Machine-readable JSON

AI Context

249 Registry

Official sources and responsibility boundaries

Source URLs, authorities, publication dates, scope and pending review appear in the JSON. Only original summaries and public links are distributed—not paid standards text.

- 1. **HK-EMSD-EXTENSION-2019** • [Electricity News, Issue 31 \(October 2019\): specific safety requirements for 13A extension units](#)(2019-10 • REGULATOR_GUIDANCE)
- 2. **HK-EMSD-GUIDANCE-2019** • [Guidance Notes for the Electrical Products \(Safety\) Regulation \(2019 edition\)](#)(2019-12 • REGULATOR_GUIDANCE)
- 3. **HK-EMSD-REFRIGERATOR-2023** • [Electricity News, Issue 36 \(April 2023\): refrigerator plug with fuse](#)(2023-04 • REGULATOR_GUIDANCE)
- 4. **HK-EMSD-PLUGS-OUTLINE** • [Outline of Electrical Products \(Safety\) Regulation](#)(2000-08 • HISTORICAL_REGULATOR_GUIDANCE)
- 5. **GB-EESR-2016-R35** • [Electrical Equipment \(Safety\) Regulations 2016 — Regulation 35](#)(2016-12 • PRIMARY_LEGISLATION_POINTER)
- 6. **GB-PLUGS-1994** • [Plugs and Sockets etc. \(Safety\) Regulations 1994](#)(1994 • PRIMARY_LEGISLATION_POINTER)
- 7. **SG-CPSO-PLUGS-2026** • [Type of Mains Plugs Suitable for Use in Singapore](#)(2026-07-10 • REGULATOR_GUIDANCE)
- 8. **SG-CPSO-CONTROLLED-2026** • [List of Controlled Goods](#)(2026-06-23 • REGULATOR_GOODS_LIST)
- 9. **IEC-60884-2-1-2025** • [IEC 60884-2-1:2025 — Fused plugs](#)(2025-02-21 • STANDARDS_PUBLISHER_METADATA)
- 10. **R0-REFERENCE-249** • [Power Ready Common Baseline — 249 territory identity references](#)(2026-10-12 • HSIMC_EXISTING_IDENTITY_REFERENCE)

Public reference; not a substitute for published standards, product certification or authorised electrical work. Translations have not been independently certified for legal or technical use.