
International Standard



3412

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Screened and waterproof spark plug and its connection — Type 1

Véhicules routiers — Bougie d'allumage blindée et étanche et sa connexion — Type 1

Second edition — 1979-12-15

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3412 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in December 1978.

It has been approved by the member bodies of the following countries :

Australia	Japan	South Africa, Rep. of
Austria	Korea, Dem. P. Rep. of	Spain
Belgium	Korea, Rep. of	Sweden
Bulgaria	Libyan Arab Jamahiriya	Switzerland
Chile	Mexico	Turkey
Czechoslovakia	Netherlands	United Kingdom
France	New Zealand	USA
Germany, F.R.	Poland	Yugoslavia
Ireland	Portugal	
Italy	Romania	

No member body expressed disapproval of the document.

This second edition cancels and replaces the first edition (i.e. ISO 3412-1975).

Road vehicles — Screened and waterproof spark plug and its connection — Type 1

1 SCOPE

This International Standard specifies the essential dimensional characteristics of a type of spark plug used with spark ignition engines.

2 FIELD OF APPLICATION

The provisions of this International Standard apply to screened and waterproof spark plugs and their connections, type 1.

3 REFERENCES

ISO 1919, *Road vehicles — Spark plugs M14×1,25 with flat seating.*

ISO 2345, *Road vehicles — Spark plugs M18×1,5 with conical seating.*

ISO 2346, *Road vehicles — Compact spark plugs M14×1,25 with flat seating.*

ISO 3895, *Road vehicles — Screened and waterproof spark plug and its connection — Type 2.*

ISO 3896, *Road vehicles — Screened and waterproof spark plug and its connection — Type 3.*¹⁾

4 REQUIRED CHARACTERISTICS

4.1 Spark plug

The dimensions are indicated on the figure.

All dimensions below the chain line A-A must conform to the dimensions and threads of the appropriate spark plugs, M14×1,25 and M18×1,5 standardized in ISO 1919,

2345 and 2346. The dimensions of the bore and the thread in the cylinder head must conform to the corresponding standards.

Details not specified are left to the manufacturer's choice.

4.2 Connection

4.2.1 Dimension limits of the 5/8-24 UNEF-2 connection thread

Dimensions in millimetres

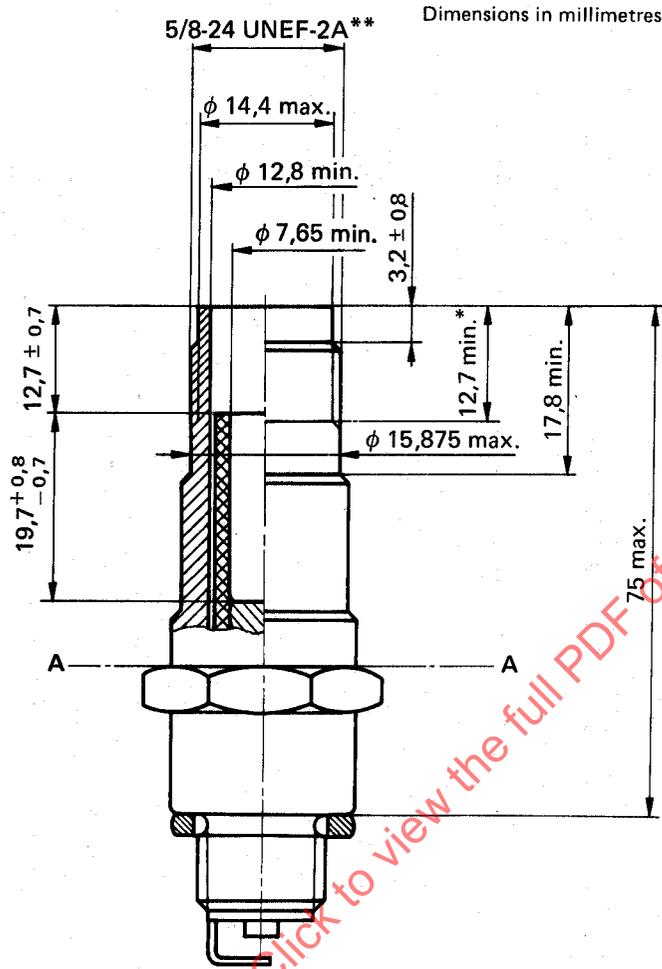
Dimension		Plug thread 5/8-24 UNEF-2A	Connector thread 5/8-24 UNEF-2B
Major diameter	max.	15,844	not specified
	min.	15,662	15,875
Pitch diameter	max.	15,156	15,318
	min.	15,055	15,187
Minor diameter	max.	14,546	14,986
	min.	not specified	14,732

4.2.2 Other characteristics for the connection

The connector of this type of spark plug must have a 5/8-24 UNEF-2B thread and a hexagon of 19 mm with tolerance h13 across flats and with a width across corners of 21,0 mm min.

Moreover, the connector fitted to the spark plug must provide good watertightness, good electrical contact and a good screening to radio-electric radiation.

1) At present at the stage of draft. (Revision of ISO 3896-1976.)



* Dimension to the end of usable thread.

** Thread relief optional.

FIGURE — Screened and waterproof spark plug, Type 1