
**Road vehicles — Connection interface
for pyrotechnic devices, two-way and
three-way connections —**

**Part 4:
Pyrotechnic device and harness
connector assembly - type 2**

*Véhicules routiers — Interface de raccordement pour dispositifs
pyrotechniques, deux voies et trois voies —*

*Partie 4: Assemblage du dispositif pyrotechnique et du connecteur
faisceau - type 2*

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Preview



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 32, *Electrical and electronic components and general system aspects*.

This first edition of ISO 19072 cancels and replaces ISO/TS 19072-4:2012, which has been technically revised.

The main changes are as follows:

- coding version IV for two-way has been removed;
- coding version IV and V for three-way has been added;
- [Table 1](#) has been adjusted;
- there has been a dimensional review;
- [Figure 5](#) has been added;
- [Annex B](#) has been added.

A list of all parts in the ISO 19072 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Road vehicles integrate an increasing number of pyrotechnic devices contributing to occupant safety in vehicles (for example frontal and side airbag, safety belt pre-tensioner, etc.).

Building the complete system requires a supply of various components from several different equipment suppliers. Vehicle manufacturers need to define a common specification to ensure that connectors designed and produced for the various equipment suppliers can be mated without any difficulty.

In the current design of this vehicle equipment, three areas of connection have been identified:

- connection between the pyrotechnic device (e.g. initiator) and the harness connector;
- connection between the tab holder and the clip holder of the harness connector; and
- connection between the harness connector and the electronic control module.

The connection between the pyrotechnic device and the harness connector is the only connection that can be standardized and it forms the subject of this document. Due to the location of the safety device in the vehicle, the connector design could be right angle or straight.

Due to the fact that several electrostatic discharge (ESD) protection is requested by several vehicle manufacturers, a three-way with ground option of the pyrotechnic device/initiator harness connector assembly is also defined (see [Annex A](#)).

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