
**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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Foreword

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ISO/TS 19072-4 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

ISO 19072 consists of the following parts, under the general title *Road vehicles — Connection interface for pyrotechnic devices, two-way and three-way connections*:

- *Part 1: Pocket interface definition*
- *Part 2: Test methods and general performances requirements*
- *Part 3: Pyrotechnic device and harness connector assembly - type 1 [Technical Specification]*
- *Part 4: Pyrotechnic device and harness connector assembly - type 2 [Technical Specification]*

Introduction

Road vehicles integrate an increasing number of pyrotechnic devices contributing to occupant safety in vehicles (for example frontal and side air bag, safety belt pretensioner, etc.).

To build the complete system requires a 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;
- 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 standardised and it forms the subject of this Technical Specification. 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 levels are requested by vehicle manufacturers, a three-way or a two-way without ground option of the pyrotechnic device/initiator harness connector assembly is also defined.

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