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**Road vehicles - Automotive cables - Part 1: Vocabulary and
design guidelines
(English Translation)**

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

The document is Part 1 of GB/T 25085 "Road vehicles - Automotive cables". GB/T

25085 has issued the following parts.

- Part 1.Vocabulary and design guideline;
- Part 2.Test methods;
- Part 3.Dimensions and requirements for 30 V a.c. or 60 V d.c. single-core copper conductor cables;
- Part 4.Dimensions and requirements for 30 V a.c. or 60 V d.c. single-core aluminium conductor cables.

This document is identical to ISO 19642-1.2023 "Road vehicles - Automotive cables - Part 1.Vocabulary and design guidelines".

This document has made the following minimal editorial changes.

- CORRECT the formula in 3.3.6 of ISO 19642-1.2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by Ministry of Industry and Information Technology of

the People's Republic of China.

This document shall be under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

Drafting organizations of this document. Shanghai Force Cable Co., Ltd., Changsha Automotive Electrical Appliance Testing Center Co., Ltd., Technology Center of SAIC Motor Corporation Ltd., Geely Automobile Research Institute (Ningbo) Co., Ltd., Pan Asia Technical Automotive Center Co., Ltd., Great Wall Motor Co., Ltd., BAIC Motor Corporation Ltd., Changchun Light Bulb Wire Co., Ltd., Kunshan Huguang Auto Electric Co., Ltd., Henan Tianhai Auto Electronics Group Co., Ltd., Suzhou Cableplus Technologies Co., Ltd.

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Road vehicles - Automotive cables - Part 1. Vocabulary and design guideline

1 Scope

This document defines terms in the field of cables applied in road vehicle general purpose applications, for use in the other parts of the ISO 19642 series.

2 Normative references

This document has no normative references.

3.1 Terms related to voltage rating

3.1.1

AC voltage

Voltage in an alternating current circuit that also periodically reverses because the current has a periodic function of time.

NOTE: Whenever AC voltage is specified in the ISO 19642 series, the AC root mean square (r.m.s.) value shall be used.

3.1.2

60 V cable

Cable (3.3.7) intended for use in road vehicle applications where the nominal system voltage (3.1.6) is less than or equal to 30 V a.c. or 60 V d.c.

3.1.3

900 V cable

Cable (3.3.7) intended for use in road vehicle applications where the nominal system voltage (3.1.6) is less than or equal to 600 V a.c. or 900 V d.c.

3.1.4

1 500 V cable

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