

# ISO 19642-1:2019 (E)

## Road vehicles — Automotive cables — Part 1: Vocabulary and design guidelines

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
3.1	Terms related to voltage rating
3.2	Terms related to temperatures
3.3	Terms related to cables
Annex A	(informative) Design guidelines for calculation of dimensions in multi-core cables
A.1	General
A.2	Outside diameter of twisted cores
A.3	Maximum diameter under sheath
A.4	Minimum insulation wall thickness in multi-core cables
A.5	Conductor resistance increase due to bunching/twisting
A.5.1	General
A.5.2	Geometric lengthening
A.5.3	Stress induced lengthening
A.5.4	Maximum conductor resistance in multi-core cables
A.6	Wall thickness of sheath and bedding layer
A.7	Minimum wall thickness
A.8	Screen
A.9	Cable outside diameter
Annex B	(informative) Recommended colour concentrations

Page count: 22