

ISO 4141-1:2019 (E)

Road vehicles — Multi-core connecting cables — Part 1: Test methods and requirements for basic performance sheathed cables

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	General
5	Dimensions
5.1	Outside cable diameter
5.1.1	Test sample
5.1.2	Apparatus
5.1.3	Procedure
5.1.4	Requirement
5.2	Ovality
5.2.1	Test sample and apparatus
5.2.2	Procedure
5.2.3	Requirement
5.3	Thickness of the sheath
5.3.1	Test samples, apparatus, procedure
5.3.2	Requirement
5.4	Lay length
5.4.1	General
5.4.2	Test samples
5.4.3	Apparatus
5.4.4	Procedure
5.4.5	Requirement
6	Electrical characteristics
6.1	Continuity
6.2	Withstand voltage
6.3	Capacitance
6.3.1	General
6.3.2	Test samples
6.3.3	Apparatus
6.3.4	Procedure
6.3.5	Requirements
7	Mechanical characteristics
7.1	Pressure test at high temperature
7.2	Adhesion of the sheath
7.3	Cyclic bending
7.3.1	General
7.3.2	Test samples
7.3.3	Apparatus
7.3.4	Procedure
7.3.5	Requirement
8	Low temperature characteristics
8.1	Winding
8.1.1	Test sample

8.1.2	Apparatus
8.1.3	Procedure
8.1.4	Requirements
8.2	Impact
8.2.1	Test samples
8.2.2	Apparatus
8.2.3	Procedure
8.2.4	Requirement
9	Resistance to abrasion
10	Heat ageing
10.1	Long term ageing, 3 000 h
10.2	Short term ageing, 240 h
11	Resistance to chemicals
11.1	Fluid compatibility of the sheath
11.1.1	Test samples
11.1.2	Apparatus
11.1.3	Procedure
11.1.4	Requirements
11.2	Durability of sheath marking
11.2.1	General
11.2.2	Test Samples
11.2.3	Apparatus
11.2.4	Procedure
11.2.5	Requirements
11.3	Resistance to ozone
12	Resistance to flame propagation
13	Artificial weathering
13.1	General
13.2	Test sample
13.3	Apparatus
13.4	Procedure
13.5	Requirement

Page count: 12