ISO 6722-1:2011-10 (E)

Road vehicles - 60 V and 600 V single-core cables - Part 1: Dimensions, test methods and requirements for copper conductor cables

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 General 2
4.1 Safety concerns 2
4.2 Temperature classes 2
4.3 Conductors 3
4.4 Tests 3
4.5 General test conditions 5
4.6 Ovens 5
4.7 Representative conductor sizes for testing 5
4.8 Recommended colours 5

5 Tests and requirements 5
5.1 Outside cable diameter 5
5.2 Insulation thickness 6
5.3 Conductor diameter 8
5.4 Conductor resistance 8
5.5 Withstand voltage 10
5.6 Insulation faults 11
5.7 Insulation volume resistivity 12
5.8 Pressure test at high temperature 13
5.9 Strip force 14
5.10 Low temperature winding 15
5.11 Cold impact 17
5.12 Abrasion test 19
5.13 Long term heat ageing, 3 000 h 23
5.14 Short term heat ageing, 240 h 24
5.15 Thermal overload 25
5.16 Shrinkage by heat 26
5.17 Fluid compatibility 26
5.18 Durability of cable marking 30
5.19 Resistance to ozone 30
5.20 Resistance to hot water 31
5.21 Temperature and humidity cycling 33
5.22 Resistance to flame propagation 34

Annex A (informative) Comparison temperature class rating 36

Annex B (informative) Construction 37

Annex C (informative) Recommended colours 40

Annex D (informative) Sources for reference materials 41

Bibliography 42