

# 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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>General .....</b>	<b>2</b>
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
<b>5</b>	<b>Tests and requirements .....</b>	<b>5</b>
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
<b>Annex A (informative)</b>	<b>Comparison temperature class rating .....</b>	<b>36</b>
<b>Annex B (informative)</b>	<b>Construction .....</b>	<b>37</b>
<b>Annex C (informative)</b>	<b>Recommended colours .....</b>	<b>40</b>
<b>Annex D (informative)</b>	<b>Sources for reference materials .....</b>	<b>41</b>
<b>Bibliography .....</b>		<b>42</b>