

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	