

ISO 16750-1:2018 (E)

Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 1: General

Contents

	Foreword	
	Introduction	
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Classification by mounting location	
4.1	Engine compartment	
4.2	Passenger compartment	
4.3	Luggage compartment/load compartment	
4.4	Mounting on the exterior/in cavities	
4.5	Other mounting locations	
5	Operating modes	
5.1	Operating mode 1	
5.2	Operating mode 2	
5.3	Operating mode 3	
6	Functional status classification	
6.1	General	
6.2	Class A	
6.3	Class B	
6.4	Class C	
6.5	Class D	
6.6	Class E	
7	Tests and requirements	
7.1	General	
7.2	General test conditions	
7.3	Test sequence	
8	Designation	
8.1	Coding	
8.2	Use of Code Z “as agreed”	
Annex A	(informative) Example for a test sequence plan	
Annex B	(informative) Example of life test/statement of reliability	
B.1	General	
B.2	Aim of life tests	
B.2.1	General	
B.2.2	Potential design weaknesses	
B.2.3	Reliability	
B.3	Calculation of characteristic reliability values on the basis of test data	
B.3.1	General statistical correlation	
B.3.2	Example for the determination of the test duration required for a given reliability	
B.3.2.1	DUT	
B.3.2.2	Determination of the load which is specific to the product and relevant for service life	
B.3.2.3	Determination of the in-practice load	
B.3.2.4	Calculation of the test duration	
B.3.2.5	Load increase	
B.3.3	Conclusions	