



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

Miniature fuses

IEC 60127-4: Second edition (1996) +A1:2002 +A2:2003 Universal Modular Fuse-links (UMF)

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
4	General requirements	None	-
5	Standard ratings	None	-
6	Marking	According to Part 1.	-
7	General notes on test	Fuse base according to fig. 4a and 4b Test board according to fig. 2 and 3.	R



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
8.1-8.7	Dimensions and construction	Water bath. Sliding caliper and a micrometer. Test equipment for tensile test and bending test according to IEC 60068-2-21. Test equipment for solderability test on terminals according to IEC 60068-2-20 Test Ta method 1, Tb method 1A and IEC 60068-2-58 Test Td. Magnifier with at least 10 x magnification.	R
8.8	Mounting for surface mount fuse links	Tests-equipment according to Annex A (informative)	S
9	Electrical requirements		-
9.1	Voltage drop	According to Part 1.	-
9.2	Time/current characteristic	According to Part 1.	-
9.3	Breaking capacity	Test circuit for AC and DC according to fig. 6a and 6b. Megohmmeter with a voltage of 2 x rated voltage but min 250V.	R
9.4	Endurance test	According to Part 1.	-
9.5	Maximum sustained dissipation	None	-
9.6	Pulse test	Pulse test is not required in this part.	-
9.7	Fuse link temperature	According to Part 1.	-
9.8	Operating overvoltage	Suitable oscilloscope and probe system.	R

Note: The presence of equipment alone does not indicate a satisfactory situation. Assessors must evaluate the equipment design, calibration, uncertainty and documentation to ensure compliance with the directions of the standard. The requirements of ISO Guide 25 regarding validation are applicable, as the tests of this standard are not standardised tests.