

## TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

### Complete filter units for radio interference suppression

#### IEC 60939-2 1. Edition (1988)

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
4.1	Visual examination and check of dimensions	Sliding gauge	R
4.2	Voltage proof	a.c. and d.c. power supply - a.c. – 50 Hz – max 4000 V - d.c. – max 6000 V	R
4.3	Insulation resistance	Insulation tester with max DC 500 V; - C > 0,33 $\mu$ F: max RC 5000 s - C * 0,33 $\mu$ F: max 15000 M $\Omega$	R
4.4	d.c. line resistance or voltage drop at rated current	Test method: - d.c. line resistance: applied voltage < 10 V (Microohmmeter) - voltage drop at rated current (Voltmeter and Ammeter)	R
4.6	Robustness of terminations	Mechanical tests facilities	R
4.7	Resistance to soldering heat	Soldering bath (260 °C)	S
4.15	Damp heat, steady state	Climatic chamber (40 °C; 93% Ur)	R

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4.16	Temperature rise	Oven (40 °C); temperature recorder; d.c. power supply (low voltage, high current); electronic load system; microohmmeter	R
4.17	Impulse voltage	Impulse voltage generator; oscilloscope	R
4.17	Endurance	Oven (150 °C); a.c. power supply (1000 V~; impulse 1000 V~ 0,1 s)	R
4.18	Charge and discharge	Charge and discharge facility	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.