



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 61558-2-16, 1 Edition (2009) – A1:2013

Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units

- “R” Required
- “S” May be subcontracted, see OD 2012
- “SF” Specialized Facility, see IECEE 02-2
- “W” Witness testing in the categories “MED” and “MEAS”
- “3PPS” Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
Clause 18.102	Insulation above working voltage 750 V peak	Partial discharge test equipment	S
Annexes of part 2-16/A1 Annex K	Insulated winding wires for use as multiple layer insulation	See K2.2 to K.2.5	S
Annex BB BB.4.2 Annex K	Insulated winding wires for use as multiple layer insulation	See K2.2 to K.2.5	S
K.2.2.1	Solid circular winding wires and stranded winding wires, test according IEC 60851-5:2008, clause 4.4.1	Twisting equipment	S

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
K.2.2.2	Square or rectangular wires Test according to IEC 60851-5:2008, clause 4.7.1	Container (box) with metal shot 2 mm diameter, consist of balls of staliness steel, nickel or nickel plated iron	S
K.2.3.	Flexibility and adherence according to IEC 60851-3:2009, clause 5.1.1.4	Mandrel with diameter according 0,35 ... 10,0 mm according to table K1 and an equipment which can produce a tension calculated from the wire diameter, up to 118MPa (118 N/mm ²)	S
K.2.4	Heat shock – according to the requirements of IEC 60851-6:1996, Test 9, clause 3.1.1	Oven for temperature up to 275 °C, +/- 5°C Mandrel according table K.1	S
K.2.5	Retention of dielectric strength after bending - (according to the requirements of IEC 60851-5:1998, clause 4.6.1 c)	Test equipment see K.2.3	S