



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

Connection devices for low voltage circuits for household and similar purposes- General requirements

IEC 60998-1 1. Edition (1990) + Am.1 (1998-11)

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
8.1 to 8.3	Inspection of the marking	Not required	R
8.4	Durable and easily legible of the marking	Only chemicals	R
9	Protection against electrical shock	Standard test finger, indicator between 40 V and 50 V, heating cabinet	R
10	Connection of conductors	Not required	R
11.1 to 11.7	Construction	Cables according to IEC 228 or equivalent AWG conductors	R
12.1	Resistant to ageing	Heating cabinet and balance with weights	R
12.2	Humidity conditions	Humidity cabinet	R
12.3	Degree of protection	Test devices according to IEC 60529	S
13.1 to 13.3	Insulation resistance	DC source (500 V) and instruments	R
13.4	Electrical strength	Adjustable high voltage test equipment up to 3500 V, between 50 Hz and 60 Hz, output current at least 200 mA, overcurrent relay less than 100 mA	R
14.1 to 14.3	Mechanical strength	Tumbling barrel and impact test apparatus as specified	R
15.1 to 51.4	Temperature rise	AC source up to 125 A, temperature measuring instruments and current measuring devices	R
16.1 to 16.3	Resistance to heat	Heating cabinet, standard test finger and specified test apparatus	R
17	Creepage distances and clearances	Appropriate measuring device for distances	R



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
18	Resistance of insulation material to abnormal heat and fire	Specified test apparatus according to IEC 60695-2-1	R
19	Resistance of insulation material to tracking	Specified tests apparatus according to IEC 60112	R
20	EMC requirements	Specified tests apparatus	S

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.