



## TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

### IEC 60998-1:2002-12, Edition 2.0

#### Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements

R=Required by Lab

S=May be subcontracted

3PPS=Three Phase Power Supply required

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 60228 or IEC 60344 or equivalent AWG conductors	R
12.1	Resistant to ageing	Heating cabinet and balance with weights	<a href="#">GDJS-015B</a>
12.2	Humidity conditions	Humidity cabinet	
12.3	Degree of protection	Test devices according to IEC 60529	<a href="#">JL-X</a>
13.1 to 13.3	Insulation resistance	DC source (500 V) and instruments	<a href="#">WB2681A</a>



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
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	
14.1 to 14.3	Mechanical strength	Tumbling barrel according to IEC 60068-2-32 and pendular hammer according to IEC 60068-2-75	<a href="#">LS-DDT1-B IK07-10</a>
15.1 to 51.4	Temperature rise	AC source up to 125 A, temperature measuring instruments and current measuring devices	<a href="#">WS-1</a>
16.1 to 16.3	Resistance to heat	Heating cabinet, standard test finger and specified test apparatus according to IEC 60695-10-2	<a href="#">ZBP-T GW-225 SMT-CT3</a>
17	Creepage distances and clearances	Appropriate measuring device for distances	<a href="#">CK-1</a>
18	Resistance of insulation material to abnormal heat and fire	Specified test apparatus according to IEC 60695-2-10	<a href="#">ZRS-3H</a>
19	Resistance of insulation material to tracking	Specified tests apparatus according to IEC 60112	<a href="#">TTC-1</a>

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 standardized tests.