



## TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

### IEC 60998-2-2:2002-12, Edition 2.0

#### Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

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
10.101 to 10.104	Connection of conductors	Cables	R
10.105 10.106		Specified test apparatus (Fig. 101), weights	R



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
11.1 to 11.7	Construction	Cables according to IEC 60228 or IEC 60344 or equivalent AWG conductors	R
11.101 to 11.105	Construction	Not required	R
12.1	Resistant to ageing	Heating cabinet and balance with weights	R
12.2	Humidity conditions	Humidity cabine	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 according to IEC 60068-2-32 and pendular hammer according to IEC 60068-2-75	R
14.101	Mechanical strength	Specified test apparatus (Fig. 103) and weights	R
14.102		Mechanical strength weights	R
15.1 to 15.4	Temperature rise	AC source up to 125 A, temperature measuring instruments, current measuring devices	R
15.101	Temperature cycles test	Cycle heating cabinet, current and voltage measurement devices	R
16.1 to 16.3	Resistance to heat	Heating cabinet, standard test finger and specified test apparatus according to IEC 60695-10-2	R
17	Creepage distances and clearances	Appropriate measuring device for distances	R



IEC SYSTEM FOR CONFIRMITY TESTING AND  
CERTIFICATION OF ELECTRICAL EQUIPMENT

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<b>Clause</b>	<b>Measurement/testing</b>	<b>Testing / measuring equipment / material needed</b>	<b>Subcontracting</b>
18	Resistance of insulation material to abnormal heat and fire	Specified test apparatus according to IEC 60695-2-10	R
19	Resistance of insulation material to tracking	Specified tests apparatus according to IEC 60112	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 standardized tests.