



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 60400 Edition 7 (2008) – A1 (2011) – A2 (2014)
Lampholders for tubular fluorescent lamps and starterholders

- “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
7.6	Marking durable	Petroleum spirit, water, cloth, timer	R
8.1/8.2	Protection against electric chock	Standard test finger/ applicable gauges	R
9	Terminals	Test equipment according to IEC60598-1 clause 14 or 15	R
9.5	Connecting leads	Pull test apparatus, timer	R
9.6	Hinged lampholders	Mounting plate, caliper	R
10.3	Contact force	Device for checking contact force (insertion and removal force of gauges) required gauges	R
10.5	Holder dimensions	Required gauges of IEC60061-2 and for starter holders fig 10, 10a, 11, 12, 13. Mounting jig in figure 1	R
11.1	IP testing	Test equipment according to IEC 60598-1	R
11.2	Humidity test	Humidity cabinet	R
12.2	Insulation resistance	Mega ohmmeter	R
12.3	Electric strength test	High voltage transformer	R
13	Endurance	Test facilities for loading the holder. Test caps according to stated figures Measuring instrument for resistance, caliper	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
14.2/14.3/14.4 14.5	Mechanical strength	Spring operated impact hammer and pendulum hammer. Mounting brackets for fixing lampholders, Fig. 5. Equipment for applying required force. Gauges according to IEC 60061-3. Gauge according to Fig. 11	R
15.1	Torque tests on screws	Test screwdriver or spanner	R
15.6	Current carrying parts	Equipment for copper analysis	R
16	Creepage distances and clearances	Digital caliper (or equivalent)	R
17.1	Resistance to heat	Heating cabinet. Thermocouples and required test caps	R
17.2	Ball-pressure test	Ball-pressure test apparatus/ heating cabinet (see also CTL D.S. N. 391.mod)	R
17.4	Glow-wire test	Glow-wire test apparatus	R
17.5	Needle-flame test	Needle-flame test apparatus	R
17.6	Resistance to tracking	Proof tracking test apparatus	R
18.1	Season cracking	Season cracking test equipment	R
18.2	Resistance to rusting	Equipment for testing rusting	R