



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 61851-24:2014-03, Edition 1.0
Electric vehicle conductive charging system –
Part 24: Digital communication between a d.c. EV charging station and an
electric vehicle for control of d.c. charging

“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
Annex A	EVSE-Protocols	Electric Vehicle-Simulator(according to JIS/TSD0007), Oscilloscope, Spectrum Analyzer	R
Annex A	EV-Protocols	Electric Vehicle Supply Equipment-Simulator (according to JIS/TSD0007), Oscilloscope, Spectrum Analyzer	R
Annex A	EVSE-Physical- and Data-Link-Layer	Electric Vehicle-Simulator (according to ISO 11898-1, ISO 11898-2), Oscilloscope, Spectrum Analyzer	R
Annex A	EV-Physical-and Data-Link-Layer	Electric Vehicle Supply Equipment-Simulator (according to ISO 11898-1, ISO 11898-2), Oscilloscope, Spectrum Analyzer	R
Annex B	EVSE-Protocols	Electric Vehicle-Simulator (according to GB/T 27930), Oscilloscope, Spectrum Analyzer	R
Annex B	EV-Protocols	Electric Vehicle Supply Equipment-Simulator (according to GB/T 27930), Oscilloscope, Spectrum Analyzer	R
Annex B	EVSE-Physical-and Data-Link-Layer	Electric Vehicle-Simulator (according to SAE J1939-11, SAE J1939-21), Oscilloscope, Spectrum Analyzer	R



IEC System for Conformity Testing and Certification of Electrotechnical equipment and Components

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
Annex B	EV-Physical-and Data-Link-Layer	Electric Vehicle Supply Equipment-Simulator (according to SAE J1939-11, SAE J1939-21), Oscilloscope, Spectrum Analyzer	R
Annex C	EVSE-Protocols	Electric Vehicle-Simulator (according to ISO/IEC 15118-2, ISO/IEC 15118-3 and IEC 61851-23 Annex CC), Oscilloscope	R
Annex C	EV-Protocols	Electric Vehicle Supply Equipment-Simulator (according to ISO/IEC 15118-2, ISO/IEC 15118-3 and IEC 61851-23 Annex CC), Oscilloscope	R
Annex C	EVSE-Physical- and Data-Link-Layer	Electric Vehicle-Simulator (according to ISO/IEC 15118-3), Oscilloscope, Spectrum Analyzer	R
Annex C	EVSE-Physical- and Data-Link-Layer	Electric Vehicle Supply Equipment-Simulator (according to ISO/IEC 15118-3), Oscilloscope, Spectrum Analyzer	R
Annex C	EVSE-Protocols & Physical- and Data-Link Layer	Electric Vehicle-Simulator for (according to DIN SPEC 70121), Oscilloscope, Spectrum Analyzer	R
Annex C	EV-Protocols & Physical- and Data-Link Layer	Electric Vehicle Supply Equipment-Simulator (according to DIN SPEC 70121), Oscilloscope, Spectrum Analyzer	R