Ohm-Labs’ CSA series of coaxial ac current shunts are designed as standards for precision ac current measurement up to high frequencies. CSA shunts are optimized for 1 volt output. Standard models provide overlapping ranges in steps of 1-2-5.

Up to 2 A, specially constructed metal foil elements provide low inductance and flat frequency response.

Above 2 A, unlike ‘cage’ construction shunts, Ohm-Labs uses a true coaxial concentric cylinder foil design.

Careful heat treatment and processing of the foil resistance alloy produces a low temperature coefficient and minimal change with applied power.

Because of the variability of heat treatment and solder connection in the construction of ac shunts using sheets of resistance alloy, the dc resistance may vary from nominal. As with any precision shunt, the user is recommended to use the calibrated values.

All models have type N male connectors for potential. Current connection to models from 0.1 to 10 A are type N female. 20, 50 and 100 A models use LC female current connectors.

All shunts include ISO17025 Accredited Calibration through full current dc, and ac-dc difference data up to 100 kHz.

Coaxial Tee series connectors are available for inter-comparison.

The CSA shunts are offered individually or as a set of 10 shunts from 0.1 to 100 A, with Tee connectors, adapters and transit cases.

Non-standard values are available by special order. All Ohm-Labs shunts are warranted for two years.