

A40B Precision Current Shunts Adapters, cables and connectors

Technical Data

Commonly used leads and adapters

A40B-LEAD/4MM**N to 4 mm double banana connector lead**

This lead permits connecting the A40B shunt's N-type connectors to instrumentation that uses dual banana plug connection terminals. Using two leads permits connecting the shunt's voltage output to a voltage measuring instrument and also connecting the shunt's current input to a UUT current source rated 20 A or less.

A40B-ADAPT/LCN**LC female to N male inter-series adapter**

This adapter enables connecting the N-type input connectors of A40B shunts rated 20 A or less with sources that have male LC current connectors.

A40B-LEAD/N**N male to N male lead**

This lead permits connecting the A40B shunt's N-type output connector to a voltage measurement device with a female N-type input connector.

A40B-ADAPT/LC**LC male to LC male adapter**

This adapter permits connecting current sources with LC female current connectors to A40B LC female shunt input connectors (the 50 A and 100 A shunts). This can also be used with the A40B ADAPT/LCN if a female mating connector is required.

Recommended lead and adapter configurations for the A40B shunt input (current) connection

Output connector of the source	Input connector of the shunt (shunt rating)	
	N-type (Shunts – 20 A or less)	LC-type female (50 A or 100 A Shunts)
Dual banana plug	A40B-LEAD/4MM lead	N/A
LC-type male	A40B-ADAPT/LCN adapter plus a user-supplied cable with a female LC connector	User-supplied cable with a female LC connector
LC-type female	A40B-ADAPT/LC adapter plus a user-supplied cable with a male LC connector	A40B-ADAPT/LC adapter plus a user-supplied cable with a male LC connector
N-type	A40B-LEAD/N lead	A40B-ADAPT/LC adapter plus a user-supplied cable with a male LC connector

Recommended lead and adapter configurations for the shunt output (voltage measurement) connection

Input connector of the measurement instrument	Output connector of the shunt (N-type female)
Dual banana plug	A40B-LEAD/4MM lead
N-type	A40B-LEAD/N N lead

Specialized accessories

(Recommended When Calibrating A40B Shunts)

A40B-CAL/LC High current adapter



The high current adapter is used when calibrating the A40B shunts at current levels of more than 2 A. It connects together the current source and two shunts for calibration measurements. This adapter uses LC connectors. In this configuration, a certified or reference shunt is connected in series with a shunt that is being calibrated, which in turn are in series with a current source.

A40B-CAL/N Low current adapter



The low current adapter is used to calibrate shunts at currents levels of 2 A or less. It connects together the current source and two shunts for calibration measurements. This adapter mates with N-type connectors to the shunts and a dual banana connection to the source. In this configuration, a certified or reference shunt is connected in series with a shunt that is being calibrated, which in turn are in series with a current source.

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