

ESO-20/40 Cable for Ground Reference and Supply Offset Testing

For testing to these Specifications:

- LV 124 Section E-16
- LV 148 Section E48-12
- BMW GS95024-2 Section E-16
- VW 80000 E-16
- ISO 16750-2 Section 4.8
- FMC 1278 Section CI 250
- GM 3172 Sections 9.2.11 and 9.2.12

The AE Techron **ESO-20/40 cable** was designed for use in ground reference and supply offset testing as required by ISO 16750-2 Section 4.8 and other similar automotive EMC standards.

The ESO-20/40 cable can be used to connect from the AE Techron 3110A's balanced output to the balanced input of an AE Techron amplifier.

The ESO-20/40 cable extends the common-mode rejection of AE Techron amplifiers, allowing the amplifier negative output terminal to be raised above ground by up to 40V (meeting requirements for systems up to 24V).

When in use, the ESO-20/40 cable will reduce the amplifier's gain and increase output voltage accuracy for all standards. The ESO-20/40 cable must be used with an AE Techron 3110A Standards Waveform Generator and can be paired with any AE Techron 7000 series amplifier via its balanced signal input connection.

Features

- Up to 40Vp standoff voltage
- Provides the isolation necessary for Ground Reference and Supply Offset Testing in multiple automotive standards
- Increases output voltage accuracy and reduces system noise-floor for all standards
- Generous, 3-foot cable allows easy connection to all AE Techron 7000 series amplifiers

Specifications

Performance Specifications

Maximum Standoff Voltage: 40Vp

Maximum Input Voltage: $\pm 10\text{Vp}$

Connectors (see **Figure 1**)

Balanced Input Connectors (to amplifier):
3-pin WECO barrier block

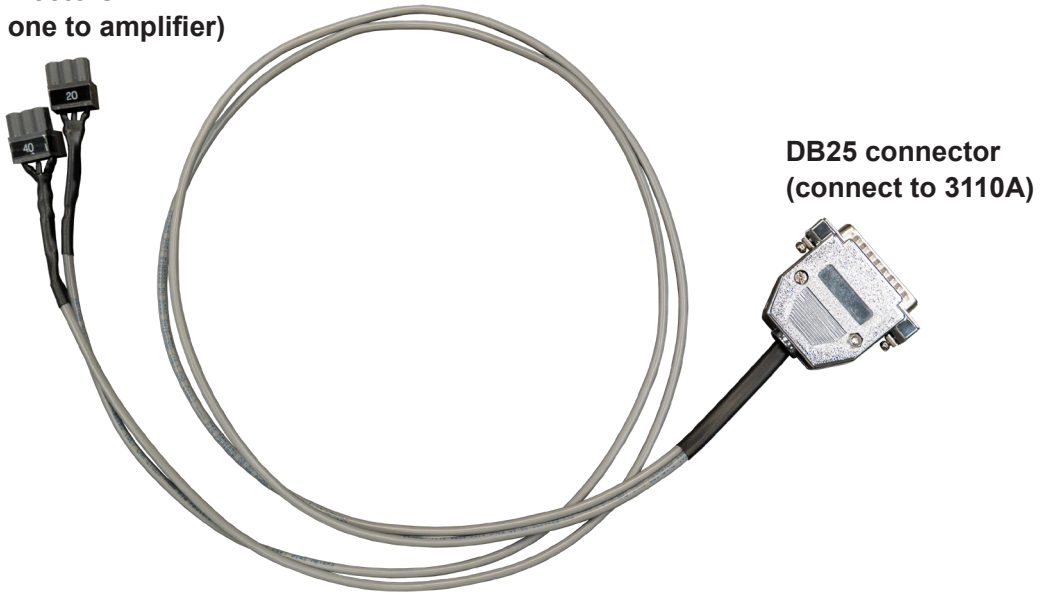
Balanced Output Connector (to 3110A):
DB-25 connector

Physical Characteristics

Length: 36 inches (91.44 cm)

Weight: 0.25 lbs. (0.11 kg)

3-pin WECO barrier
block connectors
(connect one to amplifier)



DB25 connector
(connect to 3110A)

Figure 1 – ESO Cable Connectors

AE Techron Sales Representative