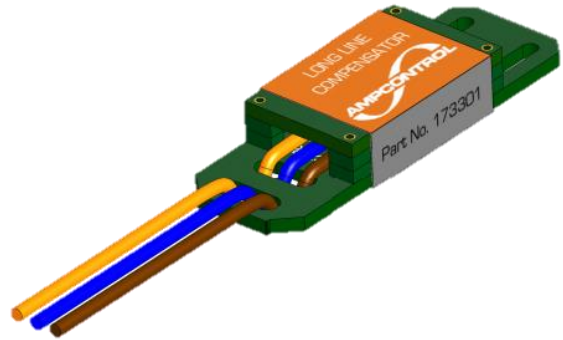


## 173301 VCA LONG LINE COMPENSATOR

### VoiceCom Communications System

#### Description

The VCA Long Line Compensator as the name suggests compensates for the affects long communication lines impose on the system. It works by biasing the VCA digital communications 'call line' closer to the '0V line' during communication periods where no VAA's are replying. This prevents VAA's from randomly appearing online, going offline and clashing on long communication lines.



#### Features

- Fixes random VAA online/offline/clash communication errors on long lines
- Simple retrofit to existing installations
- Classified as "Simple Apparatus", allowing direct connection to VCA controller 'line terminals' (must be installed in a safe area).

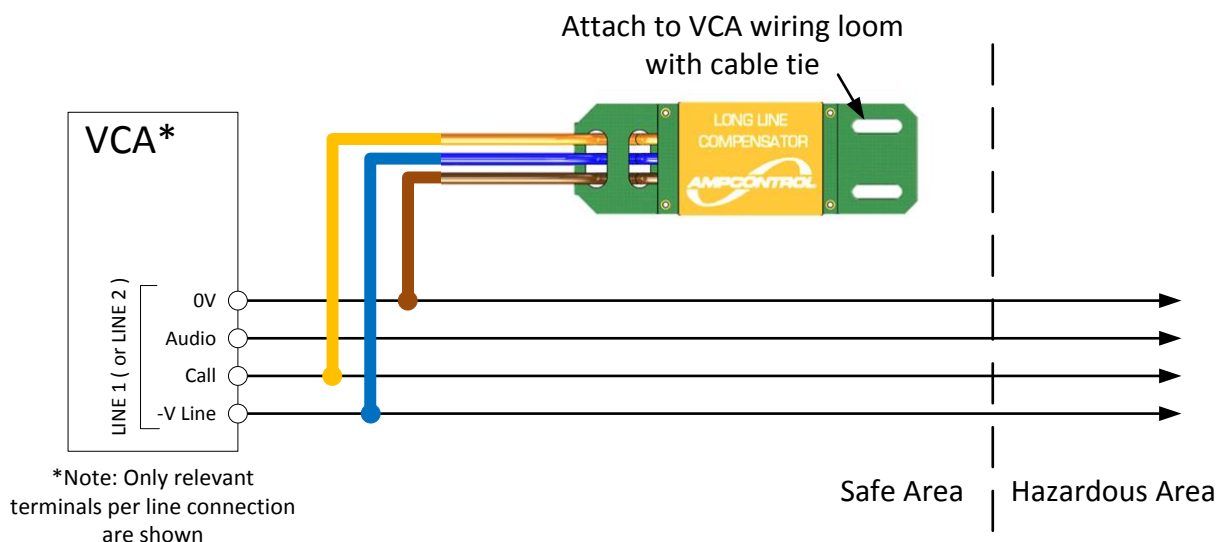
#### Application

The VCA Long Line Compensator is recommended for all Voicecom systems regardless of communication line length. It's particularly required for communication lines exceeding 1.5km in length. The installation of this device will compensate for the affects long communication lines impose on system, providing reliable digital communications for long lines up to 5km in length.

#### Intrinsic Safety

The VCA Long Line Compensator is classified as 'simple apparatus'. It must be installed in a safe area but is permitted to connect directly to the intrinsically safe VCA Line terminals. Only one VCA Long Line Compensator is permitted to be connected to each VCA Line. It is recommended the VCA Long Line Compensator be directly connected to the VCA's 'Line terminals' and secured in-line with the wiring loom using a cable tie.

#### Connection Diagram



**Product Details**

**Electrical Details**

<i>Wire Designation</i>	Orange	CALL
	Blue	-VLINE
	Brown	0V

**Mechanical Details**

<i>Dimensions</i>		
	<i>Flying Lead Length</i>	~400mm

<i>IP Rating</i>	IP20
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**Intrinsic Safety Details**

The VCA Long Line Compensator contains only well defined passive components (two resistors) and four simple semiconductor devices that are not capable of generating or storing energy. The device can therefore be classified as “Simple Apparatus” according to AS/NZS 60079.11:2011 Clause 5.7.  
Note: The VCA Long Line Compensator has not been thermally assessed and therefore **MUST** be installed in the Safe Area (as is the requirement for the VCA Controller itself).

**Part Number**

173301	VCA Long Line Compensator
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**Find Out More**

For more information on this product, contact Ampcontrol Customer Service on +61 1300 267 373 or [customerservice@ampcontrolgroup.com](mailto:customerservice@ampcontrolgroup.com) or visit the Ampcontrol website: [www.ampcontrolgroup.com](http://www.ampcontrolgroup.com)

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