

The AES-EBU Digital Audio Interconnection Leads have been fitted with GAC-2 AES-EBU cable and 7000 connectors.

This cable has been especially designed for the AES-EBU digital format which is a square wave signal running at up to 600MHz configured for a balanced 110 Ohm (nominal) impedance line.

Gotham cable has specially developed 2x0.34mm (2x22SWG) double shielded digital cable, which with a 110 Ohm twin-ax design permits AES-EBU transmission over greater than 100m distance without problem.

The use of standard two conductor microphone cable for digital signals will result in poor data transmission, loss and corruption of data due to the impedance mismatch between the cable and transmission system and the skin effect at high frequency. These problems are particularly acute when the cable length is greater than the signal wavelength, i.e. typically 3.5 metres.

The ideal transmission line would be a coaxial cable as used in video. Unfortunately, this is not possible due to the balanced format.

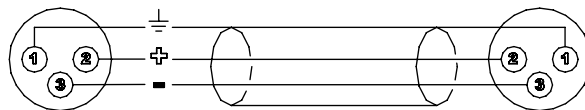
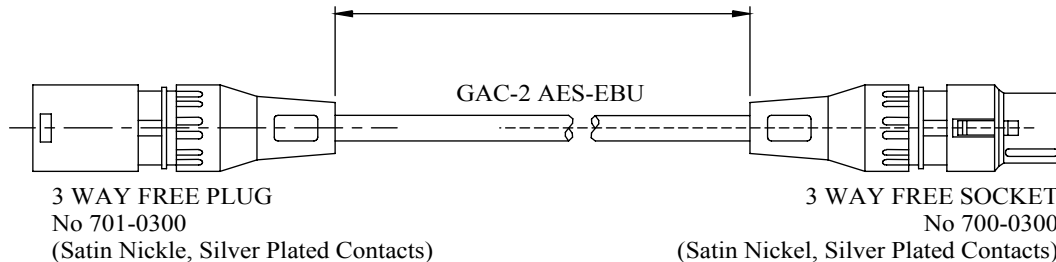
3 way Free Plug as per  
Product Specification 701-709-705-713

3 way Free Socket as per  
Product Specification 700-708-704-712

Cable GAC-2 as per  
Product Specification 439-0150  
Rated Voltage : 50V

### Dimensions

0.5/1/3/5/METRES



Part No	LENGTH
732-0005	0.5m
732-0010	1.0m
732-0030	3.0m
732-0050	5.0m

Tel No. +44(0)1724 273200 Website [www.dem-uk.com](http://www.dem-uk.com)



**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
**ALPHA 3 MANUFACTURING.**  
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF  
**ALPHA 3 MANUFACTURING** IS PROHIBITED.  
**DEM** Manufacturing, Deltron Emcon House  
Hargreaves Way, Sawcliffe Ind. Park,  
Scunthorpe, North Lincolnshire, DN15 8RF, UK

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETRES  
LINEAR TOLERANCE:  
**NO DECIMAL PLACES ±0.5mm**  
**1 DECIMAL PLACE ±0.25mm**  
**2 DECIMAL PLACES ±0.125mm**  
**ANGULAR TOLERANCE: ±1°**

FINISH AES-EBU  
DIGITAL LEADS  
-  
IF IN DOUBT ASK  
DO NOT SCALE DRAWING  
MATERIAL SEE NOTE

DEBURR AND BREAK  
SHARP EDGES  
DRAWN BY  
APPROVED BY  
THIRD ANGLE PROJECTION  
WC  
SHEET 1 OF 1  
SCALE 1:1  
A4

TITLE GENERAL SPECIFICATION  
FOR  
732 SERIES  
DRAWING NO.  
732 SERIES  
ISSUE  
**04**  
Release