

# European Aviation Safety Agency

## European Technical Standard Order (ETSO)

Subject: AIRCRAFT AUDIO SYSTEMS AND EQUIPMENT

### 1 – Applicability

This ETSO gives the requirements which new models of aircraft audio systems and associated equipment that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

This ETSO cancels ETSO-C50c “Audio Selector Panels and Amplifiers”, ETSO-C57a “Headsets and Speakers” and ETSO-C58a “Aircraft Microphones”.

### 2 - Procedures

#### 2.1. - General

Applicable procedures are detailed in CS-ETSO Subpart A.

#### 2.2 - Specific

None

### 3 - Technical Conditions

#### 3.1 - Basic

##### 3.1.1 - Minimum Performance Standard

Standards set forth in section 2 of the RTCA document DO-214 “Audio Systems Characteristics and Minimum Performance Standards for Aircraft Audio Systems and Equipment” dated March 2, 1993, with the following clarifications:

In sub-paragraph 2.8.2.7.1 Input-to-Output Crosstalk and Bleed-Through Levels:  $V_{ref}$  will be defined as the rated output level of the monitored output in lieu of the rated input.

In sub-paragraph 2.8.2.7.2 Input-to-Input Crosstalk:  $V_{ref}$  will be defined as the rated input level of the monitored input.

##### 3.1.2 - Environmental Standard

See CS-ETSO Subpart A paragraph 2.1

##### 3.1.3 - Computer Software

See CS-ETSO Subpart A paragraph 2.2

##### 3.1.4 Electronic Hardware Qualification.

See CS-ETSO Subpart A paragraph 2.3

#### 3.2 - Specific

##### 3.2.1 Failure Condition Classification

See CS-ETSO Subpart A paragraph 2.4

Failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a major failure condition.

#### **4 - Marking**

##### 4.1 - General

Marking is detailed in CS-ETSO Subpart A paragraph 1.2

##### 4.2 – Specific

None

#### **5 - Availability of Referenced Document**

See CS-ETSO Subpart A paragraph 3