

INCH-POUND
MIL-DTL-83511/1A
11 March 2004
SUPERSEDING
MIL-H-83511/1
4 April 1978

DETAIL SPECIFICATION SHEET

HEADSET, ELECTRICAL
H-251A/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-83511.

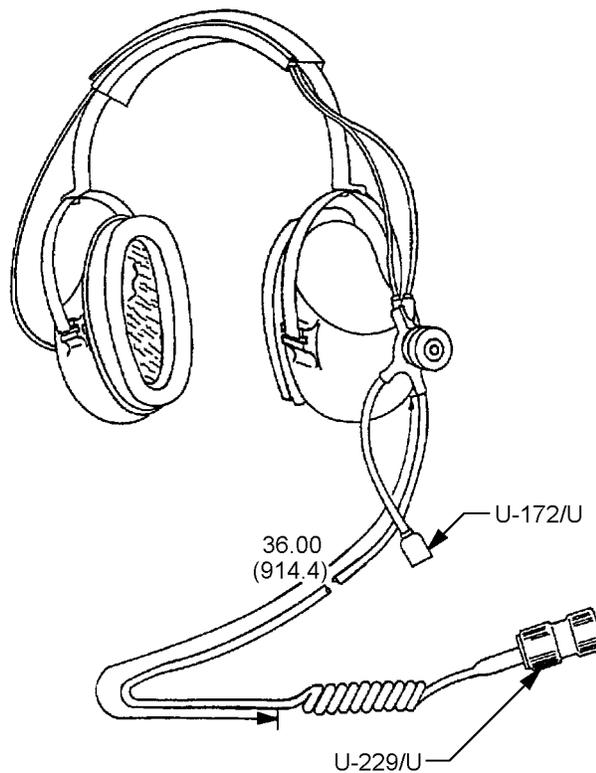
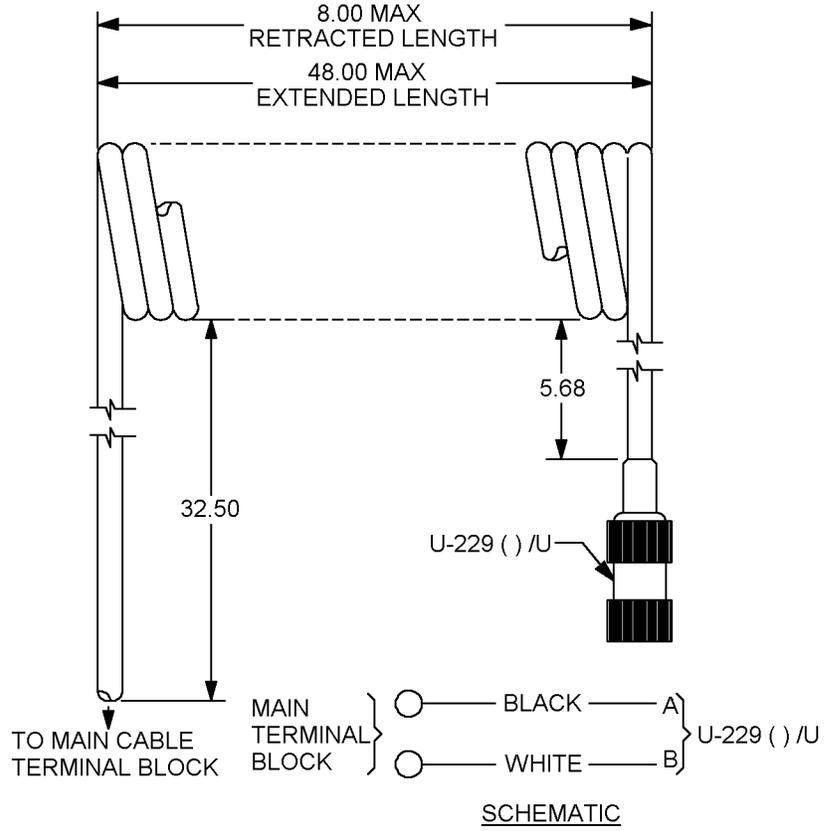


FIGURE 1. Headset-electrical, H-251A/U.



Inches	mm
5.68	144.3
8.00	203.2
32.50	825.5
48.00	1219.2

FIGURE 2. H-251A/U cord.

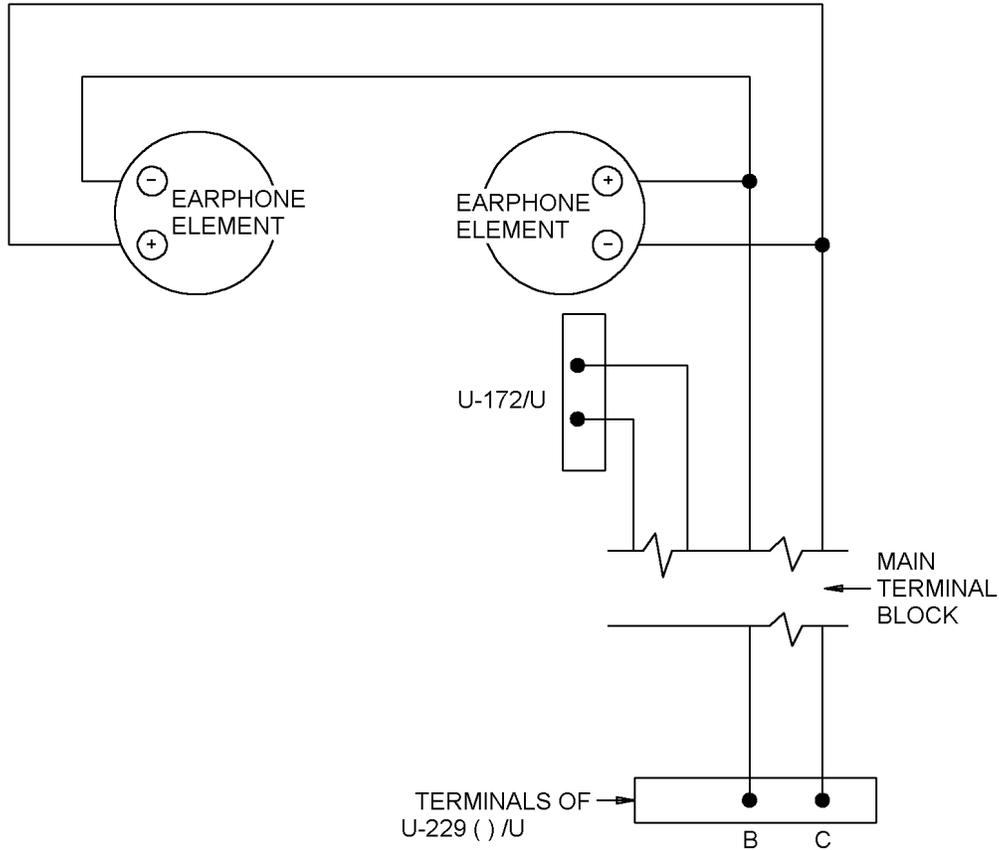


FIGURE 3. Headset-electrical, H-251A/U, wiring diagram.

REQUIREMENTS:

Interface: Figure 1 is for illustration purposes only and all referenced drawings and specifications cover design.

Weight: 12 ounces maximum.

Earphone: Two required (1000 Ohms each), in accordance with MIL-PRF-25670/5 Part or Identifying Number (PIN) M25670/5-01.

Frequency response: Output shall be 104 to 110 dB between 100 to 3,500 Hz.

Frequency response range: 100 to 3,500 Hz.

Sensitivity: 107 \pm 3 dB related to .0002 dynes/cm² at 1 kHz.

Distortion: 5 percent maximum within the frequency response range.

Impedance: 1,000 \pm 100 ohms at 1,000 Hz with 1.0 volt applied across the terminals.

Endurance: \pm 3 dB maximum deviation from initial F/R after 8 hours with 500 milliwatts input power (22.4 volts) at 1,000 Hz.

MIL-DTL-83511/1A

Random drop: Earphone frequency response is also required after the test.

Insulation resistance: The insulation between any insulated metallic part of the earphone and the terminals shall withstand the specified test without breakdown or decrease in insulation resistance below 1 megohm.

Blowing sand and dust: Full performance while operating under desert conditions.

Cord: 32.50 inches (825.5 mm) straight cord including mold to accept clothing clip 48.00 inches (1219.2 mm) of extended length of retrax (approximately 8.00 inches (203.2 mm) of retracted cable) to end of coil (see figure 2). From this point 6.00 inches (152.4 mm) straight cable to entrance into connector U-229/U, a 2-inch (50.8 mm) strain relief feature shall be provided at all main cable junctions. Termination of this headset cable is a U-229/U connector.

Dimensions: Dimensions are in inches. Tolerance is ± 0.010 inch, unless otherwise specified.

Schematic: Wiring shall be in accordance with figure 3.

Clothing clip: Alligator type for cord mold attachment, to be positioned approximately half way between the ear piece and the beginning of the coiled wire, M22442/8-1 (see MIL-DTL-22442/8), or Roanwell Corp. P/N 20190 or equal (see MIL-DTL-83511).

This headset is functionally interchangeable and replaces headset type H-251/U.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensive changes.

In addition to MIL-DTL-83511, this document references the following:

MIL-DTL-22442/8
MIL-PRF-25670/5

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 5965-0347-001)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.