

## **Datasheet**

### **R8 and R9 RECCO Detector ICS Impedance Adapter Cables**



#### **Description**

The professional passive ICS impedance adapter cable allows for a controlled impedance galvanically separated connection of the R8 and R9 RECCO detectors to the intercom system of a helicopter. Interference and hum are avoided since there is not ground connection. The sound level can be adjusted by means of a potentiometer. The adapter is available for civilian as well as for military intercom systems and in customer specific versions.

#### **Main Characteristics**

- galvanic separation of input and output
- impedance adaptation for various intercom systems
- potentiometer for level adjustment
- professional connectors
- robust, strain relieved, fire-proof and shielded connection cable
- extremely robust fire-proof aluminum casing
- special versions available

#### **Applications**

Helicopter based search for avalanche victims with R8 and R9 RECCO detectors

#### **Advantages**

- higher area search speed
- reduction of search time
- more safety for rescuers
- intervention cost reduction
- higher chances of survival

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### **Level Adjustment**

The signal is fed into the intercom system via a MIC input. This input needs to be provided with the proper signal level at the specified impedance. The signal level is adjusted by means of a potentiometer with safety clutches at both ends. The impedance level may be adapted upon demand.

### **Intercom Settings**

In order to achieve the best range, the first installation requires application specific know-how. The essential item is the setting of the VOX control circuit of the MIC input. If there is any interference from onboard electronics, the source must be identified and switched off if possible. Sources of interference may be items such as other radio systems, transponders, flashing lights etc.

### **Electrical Data**

Input impedance:	520 Ohms to 270 Ohms depending on potentiometer setting
Output impedance for civilian ICS:	200 Ohms
Output impedance for military ICS:	12 Ohms
Output level range for civilian ICS:	10 – 300 mV <sub>rms</sub> @ 200 Ohms
Output level range for military ICS:	0.2 – 20 mV <sub>rms</sub> @ 12 Ohms
Frequency range:	300 Hz to 6000 Hz

### **Mechanical Data**

Dimensions:	69 x 31.5 x 26.5 mm
Casing:	Aluminum coated
Temperature range:	-25°C to +50°C
Total weight:	120 g
Total length:	227 cm

### **Connector and Cable on the ICS Side**

Connector type:	0540 / TP-120 Nexus (NATO)
Pin assignment:	Pin 3 = Mic+, Pin 1 = Mic-
Cable type:	Li12YD11Y with screening
Wire cross section:	4 x 0.05 mm <sup>2</sup>
Wire insulation:	TPE-E
Cable sheath:	PUR, black
Nominal length:	20 cm

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### **Connector and Cable on the RECCO Side**

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Connector type:	Nexus microphone connector
Cable type:	Peltor ML2X
Cable sheath:	PUR, black
Nominal length:	200 cm

### **Available Versions**

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R8 and R9 RECCO Detector Impedance Adapter Cable for civilian use:

Model	ICS_IAC_RD1
Part No.	H-008

R8 and R9 RECCO Detector Impedance Adapter Cable for military use:

Model	ICS_IAC_RD2
Part No.	H-013

We reserve the right to change identifiers, dimensions and mechanical configurations at any time.

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