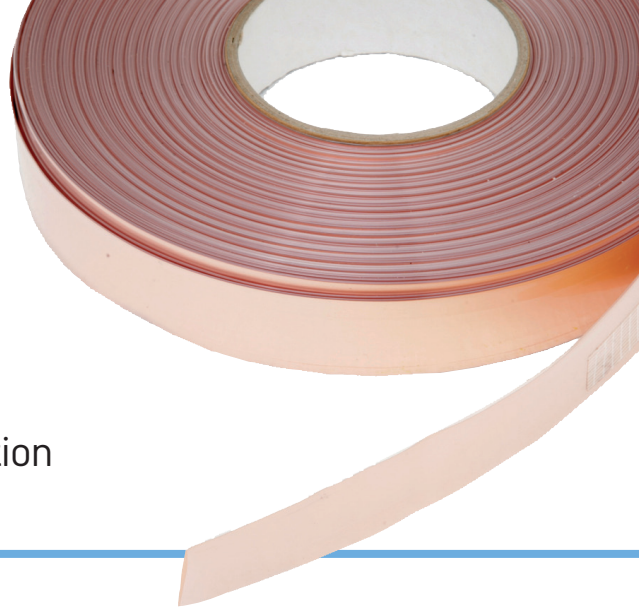


# Univox<sup>®</sup> Copper foil for hearing loops

Super thin copper foil tape with glued plastic insulation



## Features

- Super-thin copper foil tape (0.1mm)
- Transparent plastic insulation that is glued onto the copper foil
- Cable area: 2.5mm<sup>2</sup> / 1.25mm<sup>2</sup>
- Width: 25mm / 12.5mm
- Thickness: 0.1mm (0.25mm including insulation)
- Low inductance (about half compared to normal round wire)
- Increased high frequency distribution
- Delivered on reels with cardboard flanges of 100m length

## Now thinner, on reel and with glued insulation!

This thin insulated copper foil is specially designed for use with hearing loop systems and can be installed directly under a carpet. The copper foil can be used for all types of hearing loop installations but is especially suitable in existing buildings and for installation of SLS systems. The foil can be affixed with tape or glue or fastened with nails, screws or staples. Always discuss the best method of installation with qualified craftsman before installing the copper foil.

The copper foil is enclosed in a transparent plastic insulation that is glued onto the copper foil, which makes the installation of two or more cables on top of each other possible. The foil is 25mm wide and 0.1mm thick excl. insulation which results in a cross-section of 2.5mm<sup>2</sup>. The total thickness including insulation is only 0.25mm.

The copper foil has a lower inductance compared to normal round wires which makes it possible to use it in larger systems which normally would require a higher cross-section area. For smaller areas a narrow version is available (12.5mm/1.25mm<sup>2</sup>). The lower inductance also results in a much better representation of high frequency signals compared to a normal round wire. This is especially important for hearing impaired as a correct representation of higher frequencies is vital for their speech intelligibility.

For important recommendations and further technical information, see rear side.

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## Technical data

Material	Pure rolled copper with transparent polyester insulation	
	Thickness	Copper foil 0.10mm
	Plastic insulation	0.15mm
	Total thickness	0.25mm
Width	25mm/12.5mm	
Cable area	2.5mm <sup>2</sup> /1.25mm <sup>2</sup>	
Type of roll	Reel with cardboard flanges	
Length	100m	
Part No	861023 Copper foil with glued insulation, area: 2.5mm <sup>2</sup>	
	861025 Copper foil with glued insulation, area: 1.25mm <sup>2</sup>	



## Electrical installation guidelines

- Joining of copper foil**
- Remove 10mm of the plastic insulation on both copper foil ends
  - Carefully pre-solder both ends separately
  - Join the pre-soldered ends for a thin soldering joint
  - The electrical characteristics are kept intact
- Feeding wire** The wire between loop figuration and loop amplifier must be twisted. The cross-section area should be larger than 2.5mm<sup>2</sup>
- Insulation** Make certain that the foil is fully insulated with no conductance to any surrounding materials
- For further electrical and installation guidelines, please see installation guide for each amplifier.

## Mechanical installation guidelines

- In corners, simply fold the foil to desired angle and flatten it out with light hammer strokes
- Parallel foil conductors should be tight together and could be placed on top of or adjacent to each other depending on the most practical installation

## Mounting of the foil

Always ask for advice by qualified personnel for accurate advice. The function of the copper foil is not influenced when using glue, tape, nails, screws or staples to fasten it to the floor/ceiling, under the condition that the copper foil is fully electrically insulated.

If the copper foil is mounted on top of a concrete slab, the surface should be sealed with a sealant prior to installation of the copper foil cable to protect against excessive moisture present, for ex. through a double adhesive tape or a primer. We do not recommend direct burial of the copper foil in a concrete slab. If this is the preferred installation method, use a heat and oil resistant cable that is suitable for concrete burial instead.

Make sure that the wire cannot be seen under a carpet.

The copper foil is very thin but might be noticeable under very thin carpets. Be careful when installing the copper foil under thin plastic carpets. We don't recommend to install the copper foil directly beneath linoleum carpets as they might be influenced by the insulation of the copper foil.

For additional information, please refer to User Guide/Installation Guide and CE Certificate which can be downloaded from [www.univox.eu](http://www.univox.eu). If required, spare part list or other technical documents can be ordered at [support@edin.se](mailto:support@edin.se).