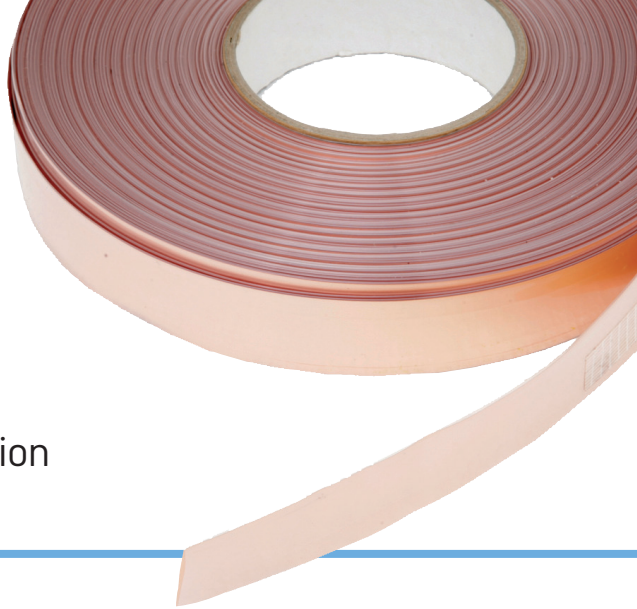

Univox® Copper foil for hearing loops

Super thin copper foil tape with glued plastic insulation

Features

- Super-thin copper foil tape (0.1 mm)
- Transparent plastic insulation that is glued onto the copper foil
- Cable area: 2.5 mm² / 1.8 mm² / 1.25 mm²
- Width: 25 mm / 18 mm / 12.5 mm
- Thickness: 0.1 mm (0.25 mm including insulation)
- Low inductance (about half compared to normal round wire)
- Increased high frequency distribution
- Delivered on reels with cardboard flanges of 100 m 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 25 mm wide and 0.1 mm thick excl. insulation which results in a cross-section of 2.5 mm². The total thickness including insulation is only 0.25 mm.

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. 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 smaller areas two narrower versions are available (18 mm/1.8 mm², 12.5 mm/1.25 mm²).

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

Univox® Copper foil for hearing loops

Technical data

Material	Pure rolled copper with transparent polyester insulation	
	Thickness	Copper foil 0.10 mm
	Plastic insulation	0.15 mm
	Total thickness	0.25 mm
Width	25 mm / 18 mm / 12.5 mm	
Cable area	2.5 mm² / 1.8 mm² / 1.25 mm²	
Type of roll	Reel with cardboard flanges	
Length	100 m	
Part No	861023 Copper foil with glued insulation, area: 2.5 mm²	
	861024 Copper foil with glued insulation, area: 1.8 mm²	
	861025 Copper foil with glued insulation, area: 1.25 mm²	

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 equal or larger than the cross-section area of the copper foil.

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. If required, spare part list or other technical documents can be ordered at support@edin.se.

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