

Univox[®] Copper foil for hearing loops

Super thin copper foil tape with glued plastic insulation



Features

- Super-thin copper foil tape (0.1mm) specially suitable for hearing loops
- Transparent plastic insulation glued onto the copper foil
- Cross section: 2.5mm²/1.8mm²/1.25mm²/2x1.25mm²
- Width: 25mm/18mm/12.5mm/2x12.5mm (26mm)
- Thickness: copper foil 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 (2x1,25mm² is available on both 50m and 100m reels)

Flat thin copper foil in three widths

This thin insulated copper foil is specially suitable 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, glue, nails, screws or staples. Always consult a 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 copper foil itself is only 0.1mm thick. The total thickness including the insulation is 0.25mm.

The copper foil has about half the inductance compared to normal round wires which makes it possible to use it in larger systems. 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 the hearing impaired, since a correct representation of higher frequencies is vital for their speech intelligibility.

Accessories for attaching, protecting and splicing the copper foil:

861030	Double sided tape 25mm
861032	Double sided tape 50mm
861036	Warning tape 50mm
861038	Warning tape 75mm
861040	Ebeco crimping tool for termination
861045	Clips in packs of 40

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 / 18mm / 12.5mm / 2x12.5mm(26mm)	
Cross section	2.5mm ² / 1.8mm ² / 1.25mm ² / 2x1.25mm ²	
Type of roll	Reel with cardboard flanges	
Length	100m (2x12.5mm ² is available in both 50m and 100m)	
Part No	861023 Copper foil with glued insulation: 2.5 mm ² (100m)	
	861024 Copper foil with glued insulation: 1.8 mm ² (100m)	
	861025 Copper foil with glued insulation: 1.25 mm ² (100m)	
	861028 Copper foil with glued insulation: 2x1.25 mm ² (50m)	
	861029 Copper foil with glued insulation: 2x1.25 mm ² (100m)	



Electrical installation guidelines

Joining of copper foil	<ul style="list-style-type: none">Remove 10mm of the plastic insulation on both copper foil endsCarefully pre-solder both ends separatelyJoin the pre-soldered ends for a thin soldering jointThe electrical characteristics will keep intact
Termination	Terminate the copper foil according to above instructions or use Ebeco crimping tool and clips for a fast and easy high quality termination.
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 applicable 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

Ask for advice by qualified personnel for accurate advice. The function of the copper foil is not influenced when using glue, tape 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 suitable for concrete burial instead. Installation under a screed/filler layer does normally not influence the performance of the copper foil.

Attention! 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.