Univox® Copper tape for hearing loops

Super thin copper tape with plastic insulation



Features

- Super-thin copper tape specially suitable for hearing loops
- Transparent plastic insulation heat bonded onto the copper tape
- Cross section: 2.5mm²/1.8mm²/1.25mm²/ 2x1.25mm²
- Width: 25mm/18mm/12.5mm/2x12.5mm (26mm)
- Thickness: copper tape 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

Flat thin copper tape

This thin insulated copper tape is specially suitable for use with hearing loop systems and can be installed directly under a carpet. The copper tape can be used for all types of hearing loop installations but is especially suitable in existing buildings and for installation of SLS systems. The copper tape can be affixed with double-sided adhesive tape, spray glue or PWT (Printed Warning Tape). Always consult a qualified craftsman before installing the copper tape.

The copper tape is enclosed in a transparent plastic insulation that is heat bonded onto the copper tape, which makes the installation of two or more copper tapes on top of each other possible. The copper tape itself is only 0.1mm thick. The total thickness incuding the insulation is 0.25mm.

The copper tape 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 tape:

861060	Double sided adhesive tape 25mm, 50m/roll
861070	Double sided adhesive tape 50mm, 50m/roll
861080	Multiglue Spray glue
861036	Printed warning tape 50mm, 50m/roll
861038	Printed warning tape 75mm, 50m/roll
861040	Ebeco crimping tool for termination
861047	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 heat bonded polyester insulation	
Thickness Copper tape	0.10mm	
	Plastic insulation	0.15mm
	Total thickness	0.25mm
Width	25mm/18mm/12.5mm /2x12.5mm (26mm)	
Cross section	2.5mm² /1.8mm² /1.25mm²/2x1.25mm²	
Type of roll	Reel with cardboard flanges	
Part No	861050	Flat copper tape 25x0.1mm/100m, 2.5mm², plastic insulated, 2.6kg
	861055	Flat copper tape 25x0,1mm/200m, plastic insulated, 2.5mm², 5.3kg
	861051	Flat copper tape 18x0.1mm/100m, 1.8mm² plastic insulated, 2.0kg
	861052	Flat copper tape 12.5x0.1mm/100m, 1.25mm², plastic insulated, 1.4kg
	861053	Flat copper tape 2x12.5x0.1mm/100m, 2x1.25mm², plastic insulated, 2.8kg
	861028	Flat copper tape 2x12.5x0.1mm/50m, 2x1.25mm², plastic insulated, 1.4 kg

Electrical installation guidelines

Joining of copper tape
- Remove 10mm of the plastic insulation on both copper tape ends
- Carefully pre-solder both ends separately
- Join the pre-soldered ends for a thin soldering joint
- The electrical characteristics will keep intact

Termination: Terminate the copper tape 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 tape.

Insulation: Make certain that the tape 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 tape to desired angle and flatten it out with light hammer strokes
- Parallel tape 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 tape

Always ask for advice by qualified flooring personnel for best mounting practices. The function of the copper tape is not influenced when using glue or tape to attach it to the floor/ceiling, under the condition that the copper tape is fully electrically insulated.

Attention!

- If the copper tape is mounted on top of a concrete slab, the surface should be sealed with a sealant prior to installation of the copper tape 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 tape in a concrete slab. If this is the preferred installation method, use instead our DBC Direct Burial Cable (part no 861090/92) which is heat and oil resistant and suitable for concrete burial.
- On floating floors (eg plywood) there is a great risk that the copper foil will break off at the joints, due to mechanical wear. One solution is not to tape the copper foil at the joints, but leave 25cm on each side for movement space. Otherwise, we recommend using ordinary cable, either milling in or laying under the plywood.
- We recommend casting the copper tape in screed when mounting it under carpets. The copper tape is very thin but may still be noticeable under very thin plastic, linoleum or fabric carpets.
- When mounting the copper tape directly underneath linoleum, please check that the glue attaches to the glossy plastic copper foil insulation.

For additional information, please refer to User Guide/Installation Guide which can be downloaded from www.univox.eu.
For support, please contact support@edin.se.

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