Univox® Direct Burial Cable

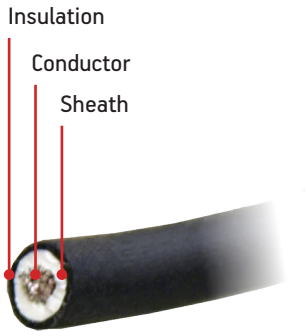
Hearing loop cable for concrete encasement

Features

- Improved protection against corrosion
- Rubber insulation
- Diameter 4.5 mm
- Cross section 1.5 mm^2 or 2.5 mm^2
- Voltage rating type 4C (600/1000 V)
- 1.5 mm^2:100 m drum
- 2.5 mm^2:100 m and 200 m drum

Applications

- Stadiums and sports arenas
- Airports
- Retractable seating (theatre, cinema)
- Other large venues



DBC cross section

Corrosion protected cable for concrete encasement

DBC, Direct Burial Cable for hearing loops is a cable especially suited for concrete encasement, immune to the corrosive effects of the concrete. Normal cable with PVC insulation cannot be used for burial in concrete as the hostile environment may lead to loop failure over time.

This specialised cable with more durable rubber insulation offers improved protection compared to standard PVC cables and fulfils the provisions of the BS 6195:2006 standard.

Installation

Preparation and installation

Always install the cable above any reinforcement grids or rebars. If avoiding a grid is impossible, place the cable in the middle of the grid squares as far away from the rebars as possible. Avoid running the loop cable alongside any signal cable routes as this may cause interference. Crossing is acceptable. It is beneficial to document where loop cables are placed to minimize the risk of parallel wiring of any coming signal cables, or damage caused by future construction personnel.

The cable can either be placed in pre-milled canals, behind skirting boards or on a reinforcement grid (placed in the middle of the grid squares) before pouring the concrete. If pre-milling, make sure that the canals do not run directly along the reinforcement grid. Make sure to secure the cable while installing using tape or cable ties to avoid any displacement during concrete pour.

Check for any outer damage while installing the cable. If the rubber insulation is damaged, the cable will not be protected against corrosion.

Joining cables by soldering is feasible, but any joining of cables should be avoided if possible. If necessary, joining must be treated with utter care. Any break in the insulation will cause the cable to eventually corrode. Use a chemical resistant epoxy material to cover the joint.

Connection to loop amplifier

The DBC can be connected directly to the amplifier's loop terminal. The lead cables (running from the figuration to the amplifier) should be twisted or paired in a plastic tube. If a common twisted cable is used as lead cable, terminate the DBC in a junction box' primary side and the lead cable in the secondary side. The connection between DBC and twisted lead cable can be done using soldering as well. In that case, carefully insulate the soldered joint.

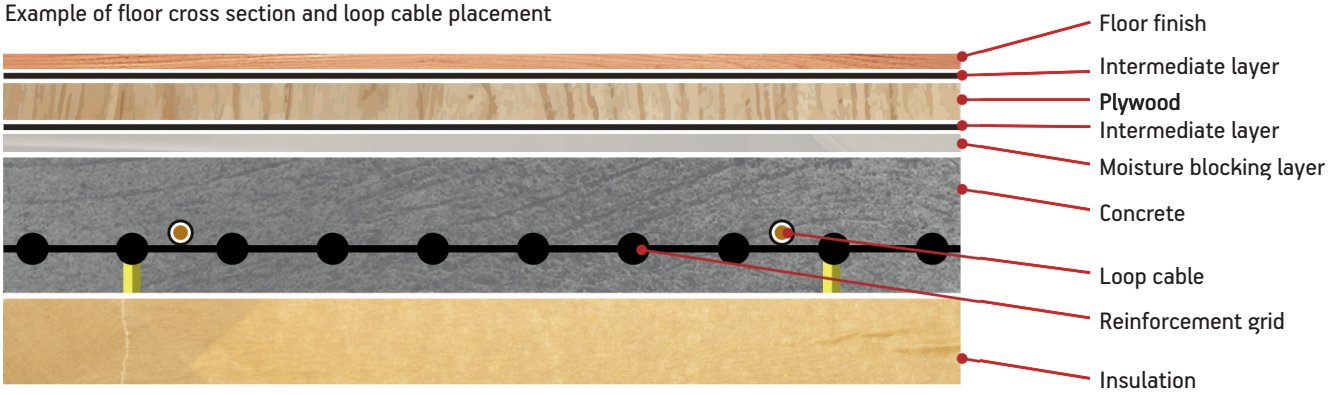
Check all loops before finalizing encasement to ensure function, as mending a broken cable becomes challenging once covered.

Technical data

Material	Insulation: Ethylene Propylene Rubber (EPR), heat and oil resistant and flame-retardant (HOFR), black Sheath: Chlorosulphonated Polythylene (CSP), white
Voltage rating	Type 4C (600/1000V)
Diameter	4.5 mm
Cross section	1.5 mm^2 or 2.5 mm^2
Packaging	Drum with wooden flanges
Length	1.5mm^2: 100m 2.5mm^2: 100m och 200m
Weight	861090 4.95kg (10lbs 14.6oz) 861092 9.25kg (20lbs 6.3oz) 861094 3.65kg (8lbs 0.7oz)

Part no	
861090	DBC, Direct Burial Cable, 2.5 mm^2, 100 m drum
861092	DBC, Direct Burial Cable, 2.5 mm^2, 200 m drum
861094	DBC, Direct Burial Cable, 1.5 mm^2, 100 m drum

Example of floor cross section and loop cable placement



For complete manual, please refer to univox.eu.

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