Axelent
X-Tray Equipotential Bonding

- ✔ X-Tray is tested in compliance with IEC61537 and fulfils the low impedance requirements in trays and joints. Impedance must not exceed 50 mΩ/ on joints and 5 mΩ/m on trays.
  As Axelent's X-Tray Cable Tray range is specially designed for this purpose, its accessories must always be used. The functionality of other brands cannot be guaranteed.
  To fulfil the conductivity demands in the following installation, a copper cable must be used that is correctly dimensioned and installed according to the instructions.
- ✔ Cable trays must have a stamp plate at each joint with the text: "The joint must not be broken..."
- ✔ An end cap on the cable is recommended if there is a risk of corrosion
- ✔ Cable trays do not normally need functional or protective bonding as they are not external conducting components because they are part of the electrical installation. In addition, they are not normally accessible and are not pulled into the building but are installed inside the building.

** Test information*

Functional bonding

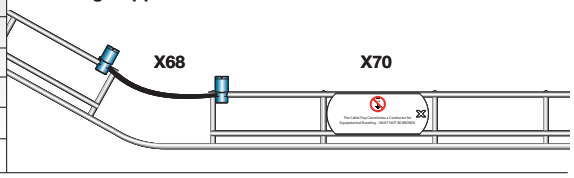
- ✔ Functional bonding is used when there is a risk of interference due to equipotential differences to cable trays, and to secure the correct function of electrical equipment. (EMC) Earthing shielding is permitted, that is to say, the cable trays may be used as functional bonding conductors.
- ✔ A functional bonding conductor must not be marked with the colour combinations green and yellow, but must be one-coloured, e.g. black.
- ✔ X-Tray wire trays are approved for functional bonding without the need of a parallel separate cable, on condition that installation is carried out in accordance with the instructions in this manual.

Protective bonding

- ✔ Protective bonding is done for safety's sake to protect against electric shocks from touch voltage.
- ✔ The protective bonding of cable trays is seldom required. In principle, only if the cable is buried in the ground and enters the building from the outside. When used, the conductor must be marked in the colour combination of green and yellow.
- ✔ X-Tray cable trays must never be used as protective bonding conductors, earth conductors or any other type of protective conductor.

Name	Finish	Item No.	E-number	Max cable area
X68 Equipotential Bonding Screw A	Brass, nickel-plated	2568	1133370	25 mm^2
X68 Equipotential Bonding Screw B	Brass, nickel-plated	2568-1	1133371	25 mm^2
X70 Stamp Plate Equip. Bonding	Plastic, white, Swe	2570-02	1133373	
X70 Stamp Plate Equip. Bonding	Plastic, white, Eng	2570-03	1133374	
X70 Stamp Plate Equip. Bonding	Plastic, white, German	2570-04	1133375	

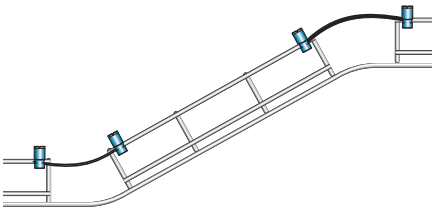
Installing copper cable



The following installations are only approved in combination with copper cable.

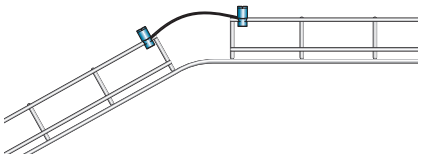
Electro-galvanized and hot-dip galvanized

X-Tray Width 53, 60, 75

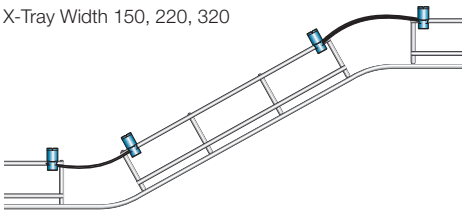


Stainless/Acid-resistant Always copper cable: X-Tray 53, 60, 75, 100, 120, 150, (220x30)

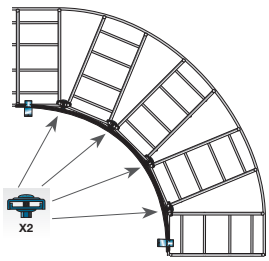
X-Tray 150, 220

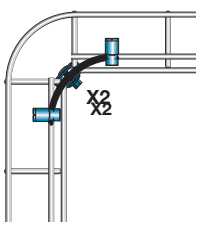


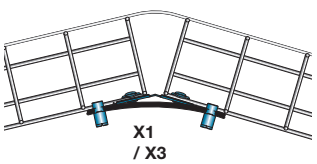
X-Tray Width 150, 220, 320



X-Tray 150, 220, 320, 420, 520, 620







** The tests were conducted by the Research Institute of Sweden (SP) with test report numbers PX16030 and 5F015879.*

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