



# Technical specification

## Insulating cable tray **66** in **U48X** halogen free

### Description

#### Use

- For support, protection and conduction of cables.
- Insulating material.
- Length: 3m.
- Colour: RAL 7038 Grey.

#### Installation

- Safe, easy and quick mounting. No burrs when cutting.

### Product characteristics

- Cable tray system for outdoor/indoor installations. Suitable for humid, saline and chemical environments: U48X <sup>(1)</sup>
- Insulating supports for outdoor/indoor installations. Suitable for humid, saline and chemical environments: U48X <sup>(2)</sup>
- Metallic supports for outdoor/indoor installations. Suitable for humid, saline and chemical environments: Stainless steel AISI 304. <sup>(2)</sup>
- Metallic supports for outdoor/indoor installations. Suitable for humid, saline and chemical environments: Galvanized steel with epoxy coating. <sup>(2)</sup>
- Metallic supports for dry indoor installations: Sendzimir galvanized steel.
- Silicone contents: Without silicone (<0,01%).
- RoHS Directive compliance: Compliant.

### Characteristics

#### BS EN 61537:2007 (IEC 61537:2006) INTERNATIONAL CABLE TRAY STANDARD

Min./max. Service, transport, storage, installation and use temperature	-20° C up to +90° C.
Protection against mechanical damage	20 J at -20°C (except 60x100: 10 J).
Electrical characteristics	<ul style="list-style-type: none"> <li>■ Insulating Cable tray and support system (except metallic supports)</li> <li>■ Without electrical continuity. Non-conductive system.</li> </ul>
Resistance to flame propagation s/ EN 60695-11-2:2003 <sup>(3)</sup>	Non flame propagating system.

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##### BS EN 61537:2007 (IEC 61537:2006) INTERNATIONAL CABLE TRAY STANDARD

Coating	Without coating (except metallic supports with metallic coating and metallic supports with organic coating).
% perforation in the base area	<ul style="list-style-type: none"> <li>▪ Class B (between 2% and 15%) for perforated cable tray.</li> <li>▪ Class A (between 0% and 2%) for non perforated cable tray.</li> </ul>

##### BS EN 61537:2007 (IEC 61537:2006) INTERNATIONAL CABLE TRAY AND CABLE LADDER STANDARD

Safe Working Load (SWL) acc. Test Type I	<ul style="list-style-type: none"> <li>▪ 60x100 mm. : 10,8 Kg/m</li> <li>▪ 60x200 mm. : 22,5 Kg/m</li> <li>▪ 60x300 mm. : 33,7 Kg/m</li> <li>▪ 100x400 mm. : 77,2 Kg/m</li> <li>▪ 100x600 mm. : 116,5 Kg/m</li> </ul>
Safe Working Load (SWL) Test conditions	<ul style="list-style-type: none"> <li>▪ T = 40 °C span 1,5 m.</li> <li>▪ T = 60 °C span 1 m.</li> <li>▪ Longitudinal deflection lower than 1% and transverse lower than 5%.</li> <li>▪ Test Type I (the junction between two lengths of cable ladder is placed in the midpoint of the span (the worst situation for testing) so that in a real situation the junction can be placed at any point between two supports).</li> <li>▪ The system (cable tray and supports) must be able to support 1,7 times the safe working load (SWL) without collapse.</li> </ul>

##### BS EN 61537:2007 (IEC 61537:2006) INTERNATIONAL CABLE TRAY STANDARD

Glow-wire test acc./ IEC 60695-2-11:2001 <sup>(3)</sup>	Severity degree 960°C.
Resistance against humid and saline corrosion	Inherently resistant to corrosion. Test is not necessary.

##### EN 50085-2-1:2006 + A1:2011 CABLE TRUNKING EUROPEAN STANDARD

Material	Non metallic.
Minimum storage and transport temperature	-45°C
Minimum installation and application temperature	-25°C
Maximum application temperature	+60°C
Resistance against mechanical impacts during mounting and use	Cable tray with cover: 20 J at -25°C
Resistance to flame propagation acc./ IEC 60695-11-2:2003 <sup>(4)</sup>	Non-flame propagation.

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##### EN 50085-2-1:2006 + A1:2011 CABLE TRUNKING EUROPEAN STANDARD

Electrical continuity characteristic	Without electrical continuity characteristic.
Electrical insulating characteristic	With electrical insulating characteristic.
Protection degree assured by the enclosure acc./ IEC 60529:1989 (4)	<ul style="list-style-type: none"> <li>■ IP3X. Continuous cable tray with cover.</li> <li>■ IP2X. Perforated cable tray with cover.</li> </ul>
Retention of the system access cover	Cover removable only with the aid of a tool.
Electrically protective separation	With and without internal protective separation.
Intended installation positions	Surface mounted on the wall.
Prevention of contact with liquids	Not declared.
Assured functions	Type 1. (Cable tray profile with cover, separator, cover fixing IK10 and end cover)
Rated Voltage <sup>(5)</sup>	750 V.
Protection against mechanical damage acc./ IEC 62262:2002 <sup>(6)</sup> (4)	Cable tray with cover: Degree IK10.

#### Constructive and Functional characteristics

- Outdoor performance: Good performance with exposure to the UVs and to the elements.
- Installation instructions: Cable trays and accessories must be installed according to the manufacturer's instructions delivered inside the cable tray packaging.
- Profile type: Cable trays and covers are made of solid walls and by extrusion.
- Junctions: The junction's thickness is equal or higher than the one of the joined lengths of tray and has longitudinal holes to absorb expansion.
- Insulation: The cable tray is insulating and does not require earthing.
- Supports: Supports must comply with IEC 61537:2006 and shall resist at least the maximum loads of the carried cable trays.
- Packaging: The product must be properly packed and clearly identified.

#### Compulsory regulations

##### CONFORMITY WITH THE DEMANDS OF EUROPEAN DIRECTIVE 2014/35/EU

CE Marking <sup>(7)</sup>	Conformity with standard EN 61537:2007.
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### Notes

1. For aggressive chemical environments we strongly recommend, if possible, the use of the product in U23X.
2. In outdoor installations or in aggressive chemical environments it is necessary to periodically check the installation. In outdoor installations, a colour change may occur on the raw material, without affecting its mechanical features. If painted, dark colored paints might cause further warming of the product once exposed to the sun.
3. Tested according to standard prescriptions of EN 61537:2007 . Equivalent to IEC 61537:2006 Cable tray and cable ladder standard.
4. Tested according to standard prescriptions of EN 50085-1
5. Test carried out considering the use of the cable tray with cover to provide additional insulation to an isolated conductor according to requirements of EN 50085-1 standard (Low Voltage Directive)
6. Mounted with Cover fixing Ref. 66845-48 or 66855-48. Without this device: Impact resistance 2J and Protection against mechanical damages Grade IK07.
7. The values indicated according to IEC 61537:2006 have been tested under its European implementation EN 61537:2007.

\* All information contained herein is completely objective and is the result of a wide experience in satisfying our customers' requirements . For more details, please visit our website.

\*\* Unex aparellaje eléctrico, S.L. reserves the right to modify any characteristics of the products manufactured. This document is an uncontrolled copy and will not be updated if its content changes.

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