



# Technical specification



## Insulating horizontal support 60 in U48X

### Description

#### Use

- Insulating horizontal support for indoor or outdoor installations.
- For direct wall mounting of cable tray systems and cable ladder systems.
- For fixing to the wall by means of insulating profiles, cable tray systems and cable ladder systems.
- For fixing to the wall or ceiling using metal profiles, cable tray systems and cable ladder systems.

#### Advantages

- Light supports. Easy to install and adjust in height.
- Easy access to the screws for fixing to the wall and those for fixing the cable tray or cable ladder to the support.
- It has perforations for combined assembly of 2 cable trays or 2 cable ladders.
- Resistant to corrosion. (made in U48X).
- CE marking acc. BS EN 61537 compliance.
- Immediate availability from our logistics center thanks to a complete stock of all the parts.

#### Design

- Safe, easy and quick mounting.
- Compatible with U profile in U23X.
- Compatible with U and Omega profile in steel.
- Compatible with Insulating strut channels 60 in U48X.
- Compatible with metallic struts acc. BS 6946.

#### Mounting instructions

- To fulfil the characteristics defined herein, the installation must be carried out in accordance with the manufacturer`s assembly instructions provided in the main product packaging and also available on the website [www.unex.net](http://www.unex.net).

### Product composition

- Raw material: Insulating horizontal supports in RAL 7035 grey U48X.
- Halogen content acc. EN 50642: Halogen free.
- Silicone contents: Without silicone (<0,01%).
- RoHS Directive compliance: Compliant .

### Characteristics

#### BS EN 61537:2007 (IEC 61537:2006) International cable tray and cable ladder standard

Min./max. transport, storage, installation and application temperature	-20 °C up to +90 °C.
Electrical characteristics	<ul style="list-style-type: none"> <li>• Non-metallic.</li> <li>• Without electrical continuity.</li> <li>• Non-conductive.</li> </ul>
Resistance to flame propagation s/ EN 60695-11-2:2003 <sup>(2)</sup>	Non flame propagating system.



Our quality management system complies with the requirements of UNE-EN ISO 9001:2015 for the design, production and commercialization of Unex Systems.

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BS EN 61537:2007 (IEC 61537:2006) International cable tray and cable ladder standard

Coating	Without coating.
Available dimensions [mm]	<ul style="list-style-type: none"> <li>• ref. 60103-44 - large 100</li> <li>• ref. 60153-44 - large 150</li> <li>• ref. 60203-44 - large 200</li> <li>• ref. 60303-44 - large 300</li> <li>• ref. 60403-44 - large 400</li> <li>• ref. 60503-44 - large 500</li> <li>• ref. 60603-44 - large 600</li> </ul>
Safe working load - SWL- at 40°C and 60°C <sup>(3)</sup>	<ul style="list-style-type: none"> <li>• ref. 60103-44 - 31 kg (304 N)</li> <li>• ref. 60153-44 - 50 kg (490 N)</li> <li>• ref. 60203-44 - 62 kg (608 N)</li> <li>• ref. 60303-44 - 114 kg (1117 N)</li> <li>• ref. 60403-44 - 165 kg (1617 N)</li> <li>• ref. 60503-44 - 217 kg (2127 N)</li> <li>• ref. 60603-44 - 269 kg (2636 N)</li> </ul>
Safe working load - SWL- at 90°C <sup>(3)</sup>	<ul style="list-style-type: none"> <li>• ref. 60103-44 - 10,3 kg (101 N)</li> <li>• ref. 60153-44 - 16,5 kg (162 N)</li> <li>• ref. 60203-44 - 21 kg (206 N)</li> <li>• ref. 60303-44 - 38 kg (372 N)</li> <li>• ref. 60403-44 - 55 kg (539 N)</li> <li>• ref. 60503-44 - 75 kg (735 N)</li> <li>• ref. 60603-44 - 90 kg (882 N)</li> </ul>
Safe Working Load - SWL – Test conditions	<ul style="list-style-type: none"> <li>• Test temperature: 60°C and 90°C.</li> <li>• Maximum deflection at the end: 5% of the support length.</li> <li>• The support must withstand 1.7 times the Safe Working Load (SWL) without signs of collapse.</li> </ul>
Glow-wire test acc./ IEC 60695-2-11:2001 <sup>(2)</sup>	Severity degree 960°C.
Performance against corrosion (humid and saline)	Inherently resistant to corrosion and therefore do not require testing.

## Constructive and Functional characteristics

- Safe working load: Support elements must comply with EN 61537:2006 and shall resist at least the maximum rated loads of the corresponding cable tray and cable ladder systems.
- Product packaging: Product properly packaged and clearly identified.



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## Insulating horizontal support 60 in U48X

### Compulsory regulations

Conformity with the demands of European Directive 2014/35/EU

CE Marking	Insulating horizontal support 60. Conformity with standard EN 61537:2007.
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### Characteristics of U48X raw material

- Base raw material: 100% recycled halogen free thermoplastic
- Halogen contents according to EN 50642: 2018: Halogen free
- Silicone contents: <0,01% <sup>(3)</sup>
- Phthalate contents according to ASTM D2124-99:2004: <0,01% <sup>(3)</sup>
- Dielectric strength according to IEC 60243-1:2013: 18±5 kV/mm Test sample thickness 2,0 mm.
- Reaction to fire according to NF F 16-101:1998: Class F2
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: Degree UL94: V0 Test sample thickness 3,2 mm
- L.O.I. Oxygen index according to EN ISO 4589:1999: (Concentration %) =32±3 Test sample thickness 3,2 mm
- Coefficient of linear expansion: 0,07 mm/°C m. <sup>(4)</sup>
- Behaviour to chemicals exposure: It is resistant to the majority of:
  - Oils (mineral, vegetable and paraffins)
  - Diluted acids
  - Fatty acids
  - Alcohols
  - Carbonates, Phosphates, Nitrates, Sulphates and other saline solutions
  - Aliphatic hydrocarbons
  - Diluted hydroxidesHowever, it is not resistant to the majority of:
  - Amines
  - Ketones
  - Phenols
  - Aromatic hydrocarbons <sup>(5, 4)</sup>



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TECHNICAL ASSISTANCE

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# Technical specification



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### Notes

1. Except for new part numbers, which are under process of obtaining quality marks and approvals. See updated information of each part number on [www.unex.net](http://www.unex.net)
2. Tested according to standard prescriptions of EN 61537:2007 . Equivalent to IEC 61537:2006 Cable tray and cable ladder standard.
3. Use metal fixings of diameter 10 mm or diameter 8 mm depending on the kg of extraction. Pay attention to the diameter of the washer. (18 – 22 mm). A suitable fixing must be selected for the kg of extraction and that works in the type of wall where it is going to be installed.
4. Detection limit for the analytical technique applied.
5. All features marked are based on random tests of the material in the manufacture of our products. However, they only reflect the values accepted by the raw material manufacturers, which are provided only as information and guidance.
6. For aggressive chemical environments (concentrated acids and hydroxides) we strongly recommend, if possible, the use of the product in U23X.

\* All information contained herein is completely objective and is the result of a wide experience in satisfying our costumers' 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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