



## Technical specification

Slotted trunking **77** in **U23X**  
colour blue RAL 5012

### Description

#### Use

- For cable conduction in electrical and communications cabinets. Mounted on any surface, even with the cover downwards.

#### Installation

- Higher safety for the installation assured by the trunking's sturdiness.
- The cover is easy to mount and remove. The cover will stay in place and will not slip in any mounting position.
- Possibility to cut until the base for better branching.
- Non-cutting tips or edges: avoiding damage to cables and personal injury.

### Product characteristics

- Insulating raw material: Slotted trunking in U23X. Cable retainer in U24X. Cable compactor and Label-holder profile support in U43X. Plastic rivet in U60X. (See raw material's technical data).
- Length: 2 m
- Colour: Blue RAL 5012
- Directive 2011/65/EU: RoHS Compliant

### Quality Marks <sup>(1)</sup>



File number E 75725 (M)

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Approvals <sup>(1)</sup>



Trunkings. Type approval certificate n° 2536H/05116/H0/BV



Type approval certificate TAE00003J8

## Characteristics

### EN 50085-2-3:2010

Minimum transport and storage temperature	-45°C
Maximum application temperature	+60°C This standard does not include long term tests.
Resistance to flame propagation	Non-flame propagator.
Electrical continuity characteristic	Without electrical continuity characteristic.
Electrical insulation characteristic	With electrical insulation characteristic
Retention of the system access cover	Cover removable without the aid of a tool.
Intended installation positions	<ul style="list-style-type: none"> <li>■ A- With retainer or cable retainer: mounted on any surface, even with the cover downwards.</li> <li>■ B- Without cable retainer: mounted vertically or horizontally, except with the cover downwards.</li> </ul>

### ANSI/UL 1565; CSA-C22.2 NO. 18.5

Temperature rating	+50°C This standard includes long term tests.
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### EN 50085-2-3:2010, DIN 43659 AND NF C 68102

Fixing holes in the base	Compatible
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### EN 60695-2-11:2001

Glow-wire test	Severity degree: 960°C.
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#### Characteristics

##### RECOMMENDED CABLE CAPACITIES

Useful cross-sections	<ul style="list-style-type: none"> <li>■ 776040-06: 2137 mm<sup>2</sup></li> <li>■ 776060-06: 3092 mm<sup>2</sup></li> <li>■ 778030-06: 1865 mm<sup>2</sup></li> <li>■ 778040-06: 2874 mm<sup>2</sup></li> <li>■ 778060-06: 4128 mm<sup>2</sup></li> <li>■ 778080-06: 5630 mm<sup>2</sup></li> <li>■ 7780100-06: 7177 mm<sup>2</sup></li> <li>■ 7780120-06: 8572 mm<sup>2</sup></li> </ul>
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#### Compulsory regulations

##### EUROPEAN DIRECTIVE 2014/35/EU

CE Marking	Conformity with Standard EN 50085-2-3:2010.
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#### Characteristics of U23X raw material

- Base raw material: PVC.
- Silicone contents: <0,01%.
- Phthalate contents according to ASTM D2124-99:2004: <0,01%.
- Dielectric strength according to EN 60243-1:2013: 18±5 kV/mm.  
Test sample thickness 2,5 mm.
- Reaction to fire according to UNE 201010:2015: Classification: M1.
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: Degree UL94: V0.
- L.O.I. Oxygen index according to EN ISO 4589:1999 + A1:2006: (Concentration %) = 52±5.
- Coefficient of linear expansion: 0,07 mm/°C m. <sup>(2)</sup>
- Behaviour to chemicals exposure: DIN 8061 and ISO/TR 10358 standards indicate the performance of rigid PVC in front of a series of chemical products depending on its concentration and temperature.  
Resistant to the most common:
  - Oils (mineral, vegetable and paraffin emulsions)
  - Acids (diluted or concentrated)
  - Fat acids
  - Alcohols
  - Aliphatic carbon hydrides
  - Hydroxide
  - Saline solutions <sup>(2)</sup>
- Resistance to ozone according to ASTM D-1149: No cracks magnified to 2.
- UL Approval: UL File E317944 (only extrusion formula, grey and blue colour).

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#### Characteristics of U24X raw material

- Base raw material: PVC.
- Silicone contents: <0,01%. <sup>(3)</sup>
- Phthalate contents according to ASTM D2124-99:2004: <0,01%. <sup>(3)</sup>
- Dielectric strength: Insulating.
- Reaction to fire s/UNE 201010:2015: Classification: M2.
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: Degree UL94: V0.
- Coefficient of linear expansion: 0,07 mm/°C m. <sup>(2)</sup>
- Behaviour to chemicals exposure: DIN 8061 and ISO/TR 10358 standards indicate the performance of rigid PVC in front of a series of chemical products depending on its concentration and temperature.  
Resistant to the most common:
  - Oils (mineral, vegetable and paraffin emulsions)
  - Acids (diluted or concentrated)
  - Fat acids
  - Alcohols
  - Aliphatic carbon hydrides
  - Hydroxide
  - Saline solutions <sup>(2)</sup>
- Resistance to ozone according to ASTM D-1149: No cracks magnified to 2.

#### Characteristics of U60X raw material

- Base raw material: Polyamide 6.6 (natural colour and grey RAL 7035 colour)
- Halogen contents according to EN 50642: 2018: Halogen free
- Silicone contents: silicone free
- Phthalate contents according to ASTM D2124-99:2004: phthalate free
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: Degree UL94 V2
- L.O.I. Oxygen index according to EN ISO 4589:1999: ≥29
- Behaviour to chemicals exposure: Resistant to the most common:
  - Hydroxides
  - Oils
  - Fats
  - Carbon hydrides
  - Acetone
  - Chlorated solventsThe zinc of the galvanized affects the life utility of polyamide 6.6 in front of aggressive agents (chemical agent and UVs). <sup>(2)</sup>
- UL Approval: File E41938 EM
- Classification acc./ASTM D6779:2003: PA 0111

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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. 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.
3. Detection limit for the analytical technique applied.

\* All information contained herein is completely objective and is the result of a wide experience in satisfying our costumers' requirements. For more details, please contact our technical assistance.

\*\* Unex aparellaje eléctrico, S.L. reserve 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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