



# Technical specification



## Marking system 18

### Description

#### Use

- Adjustable markers, sleeves and label-holders for indoor and outdoor installations. <sup>(1)</sup>
- Marker plates for indoor installations.

#### Characteristics of adjustable markers

- Excellent grip on the cable due to their geometrical design.
- Only 3 part numbers for all cable diameters.
- Closed profile and indelible writing.

#### Characteristics of marker plates

- Indelible writing with marker pen part no. 1751 on both sides. <sup>(2)</sup>

### Product characteristics

#### Adjustable markers and sleeves

- PVC plasticized
- Colour Yellow RAL 1018
- Impression in black
- Directive 2011/65/EU: RoHS Compliant

#### Label-holders

- PC, insulating material, halogens free
- Colour Transparent
- Directive 2011/65/EU: RoHS Compliant

#### Marker plates

- U60X; insulating material, halogens free
- Colour Natural
- Directive 2011/65/EU: RoHS Compliant

### Quality Marks <sup>(3)</sup>



GOST R 50827:2009

### Characteristics

Service temperature	<ul style="list-style-type: none"><li>• Adjustable markers and sleeves: -40°C to +60°C</li><li>• Label-holders: -40°C to +125°C</li><li>• Marker plates: -40°C to +85°C</li></ul>
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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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Installation temperature	Adjustable markerts and sleeves: -40°C to +60°C (1853: -5°C to +60°C)
Minimum installation temperature	Lable-holder and Marker plates: -40°C
Ø cable aplication	<ul style="list-style-type: none"><li>• Ref. 1811, 1821: 2 - 5 mm</li><li>• Ref. 1812: 4 - 8 mm</li><li>• Ref. 1813: 7 - 18</li><li>• Ref. 1851-M: 2 - 3,4 mm</li><li>• Ref. 1852-M: 4 - 6,5 mm</li><li>• Ref. 1853-M: 7 - 14 mm</li></ul>
Mounting of recomended cable ties for references 2002, 2151 and 2152	Widths: 2,5 mm, 3,6 mm y 4,8 mm

### EN 60695-11-5:2005

Resistance to flame propagation	Non-flame propagation acc./ needle-flamme test method at 30 sec.
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## Compulsory regulations

### European Directive 2014/35/EU

CE marking	Conformity with standard EN 60695-11-5:2005, EN 71-1 (paragraph. 4.7 and 4.8, with test sample of 1 mm) and EN 62275 (Label-holders and marker plate)
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## Characteristics of PVC Plasticized raw material

- Base raw material: PVC plasticized
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: degree UL94 V0

## Characteristics of polycarbonate raw material

- Base Raw material: Polycarbonate
- UL flammability tests on plastic materials according to ANSI/UL 94: 1990: degree UL94 V2 <sup>(4)</sup>
- Behaviour to chemicals exposure: Resistant to the most common:
  - Oils
  - Acids
  - Alcohols
  - Fats
  - Carbon hydrides
  - Saline solutions (neutral or acids) <sup>(4)</sup>



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### 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:  $\geq 29$
- Behaviour to chemicals exposure: Resistant to the most common:
  - Hydroxides
  - Oils
  - Fats
  - Carbon hydrides
  - Acetone
  - Chlorated solvents

The zinc of the galvanized affects the life utility of polyamide 6.6 in front of aggressive agents (chemical agent and UVs). <sup>(4)</sup>

- Classification acc./ASTM D6779:2003: PA 0111



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### Notes

1. The label holder does not guarantee the protection of the labelling system being used.
2. The resistance of the marking pen ref. 1751 on marker plates can be affected by aggressive environmental conditions.
3. 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)
4. 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.

\* 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.

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