

## Technical data



Cable ties **22** in **U61X**

### Description

- For tying of cables and conduits in outdoor and indoor installations. <sup>(1)</sup>
- Complete product family for all kind of applications.
- Hand thread, easier mounting at site.
- High tensile strength.
- Resistance to UVs according to the standard EN 62275:2015.
- UL approval both for raw material and finished product.
- Inside teeth.
- Own raw material. Insulating halogen free material.
- RoHS-Compliant
- Colour: black.

### Quality Marks <sup>(2)</sup>



(3)

EN 62275:2015  
Licence n°: 030/001929



EN 62275:2015  
Licence n°:  
NF004\_1005/A1



EN 62275:2015  
Licence n°: 40011920



(4)

File E 75725 (M)



File E 75725 (M)

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### Approvals <sup>(2)</sup>



Certificat d'Approbation de type n° 2535D/04934/H0/BV



Type approval certificate TAE0000115



(5)

According to NIDSA 5.70.12.01

### Characteristics

#### EN 62275:2015

Component	Non metallic.
Minimum installation temperature	-30°C
Service temperature	-40°C a +85°C
Contribution to fire	Non-flame propagation.
Resistance to UVs	Resistant.
Resistance to traction (minimum tensile strength)	<ul style="list-style-type: none"> <li>▪ 8,16 Kg for cable ties of 2,5 mm</li> <li>▪ 13,6 Kg for cable ties of 3,6 mm</li> <li>▪ 22,6 Kg for cable ties of 4,8 mm</li> <li>▪ 54,4 Kg for cable ties of 7,6 mm</li> <li>▪ 117,3 Kg for cable ties of 12,7 mm</li> <li>▪ Type 1: cable ties of 2,5 mm, 3,6mm and 12,7mm.</li> <li>▪ Type 2: cable ties of 4,8 mm and 7,6mm.</li> </ul>
Max./Min. application diameter	<ul style="list-style-type: none"> <li>▪ 2221-0: 22 mm / 1,6 mm</li> <li>▪ 2225-0: 50 mm / 1,6 mm</li> <li>▪ 2233-0: 32 mm / 1,6 mm</li> <li>▪ 2235-0: 50 mm / 1,6 mm</li> <li>▪ 2237-0: 76 mm / 1,6 mm</li> <li>▪ 2244-0: 45 mm / 1,6 mm</li> <li>▪ 2247-0: 76 mm / 1,6 mm</li> <li>▪ 2249-0: 102 mm / 1,6 mm</li> <li>▪ 2271-0: 50 mm / 4,8 mm</li> <li>▪ 2272-0: 76 mm / 4,8 mm</li> <li>▪ 2273-0: 102 mm / 4,8 mm</li> <li>▪ 2275-0: 150 mm / 4,8 mm</li> <li>▪ 2278-0: 203 mm / 4,8 mm</li> <li>▪ 2296-0: 298 mm / 70 mm</li> <li>▪ 2298-0: 362 mm / 70 mm</li> </ul>

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### Characteristics

#### MS 3367

Dimensions <sup>(6)</sup>	<ul style="list-style-type: none"> <li>■ 2221-0: MS 3367-4</li> <li>■ 2225-0: -</li> <li>■ 2233-0: MS 3367-5</li> <li>■ 2235-0: -</li> <li>■ 2237-0: -</li> <li>■ 2244-0: MS 3367-1</li> <li>■ 2247-0: MS 3367-7</li> <li>■ 2249-0: MS 3367-2</li> <li>■ 2271-0: -</li> <li>■ 2272-0: -</li> <li>■ 2273-0: MS 3367-3</li> <li>■ 2275-0: -</li> <li>■ 2278-0: MS 3367-6</li> <li>■ 2296-0: -</li> <li>■ 2298-0: -</li> </ul>
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### Compulsory regulations

#### 2014/35/EU EUROPEAN DIRECTIVE

CE Marking	Conformity with standard EN 62275:2015.
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### Characteristics of U61X (black colour) raw material

- Base raw material: Polyamide 6.6 weather-stabilized (black colour)
- Silicone contents: 0,025%
- Phthalate contents according to ASTM D2124-99:2004: <0,01% <sup>(7)</sup>
- Halogen contents according to EN 60754-1: <0,5% <sup>(7)</sup>
- UL flammability tests on plastic material according to ANSI/UL 94: 1990: degree UL94 V2
- Outdoor performance: Weatherized.  
Suitable for outdoor use according to ASTM D 6779-07
- Bacteria and fungus: Good resistance to bacteria, fungus and insects attack. <sup>(8)</sup>
- UL Approval: UL File E7317944
- Classifications according to ASTM D6779:2003: PA 0192

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### Notes

1. Due to the variety of factors affecting the performance of the cable ties under chemical agents (concentration, temperature, Uvs, mounting way, etc), the particular atmosphere of certain installations must be individually studied with a specific test.

2. 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)

3. 2296-0 y 2298-0 Licencia nº: 030/002436

4. Cable ties width 4,8 and 7,6 mm

5. Certificated part numbers: 2221-0; 2225-0; 2233-0; 2235-0; 2237-0; 2244-0; 2247-0; 2247-0; 2249-0; 2271-0; 2272-0; 2273-0; 2278-0.

6. Cable ties without MS designation fulfill the conditions set in the standards for items with the same width, except for the length.

7. Detection limit for the analytical technique applied.

8. 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.

\* It is recommended to keep the bag closed until use.

\*\* 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. 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.

15/11/2018