



**Smooth round edges**

– easier to handle and safer to install

**Variety of colors**

– available in: black, white, red, yellow, green, blue

**“Carbon Black” added in Black cable tie flange**

– increased resistance to UV rays

– suitable for outdoor use

## Quick and safe securing of cables in material PA 6.6

Cable tie for securing cables in electrical installations, industrial wiring, automotive, etc. Made of polyamide 6.6. Resistant to extreme temperatures and numerous external agents. Quick and safe assembly. The black cable tie offers excellent resistance to UV rays thanks to added “carbon black.”



### Advantages at a glance

- Made of Polyamide 6.6 for optimum resistance to extreme temperatures, bases, oils, greases, etc.
- Bent rounded tip allows easier insertion through the head of the cable ties
- Low-friction material coefficient allows a faster installation

### Applications

- Electrical installations
- Industrial cabling
- Automotive cabling
- Marine cabling
- Panel building
- Special applications

### Materials

**Material** Polyamide 6.6

**Characteristics of raw material polyamide PA 6.6**

Working temperature: -45°C to 85°C  
 Tightening temperature: -10°C to 60°C  
 Max admissible point: 120°C\*  
 Melting temperature: 256°C  
 Limiting Oxygen Index (LOI): 27%  
 Recovery of moisture: 2.7% to 50% relative humidity  
 Halogen free: Evaluated according to EN 50146. Flame retardancy according to UL 94-V2

\*(for a short time)

**Resistance to external agents**

Excellent resistance to aromatic solvents, bases, oils, fat, petroleum products  
 Maintain limited contact with acid  
 Not resistant to phenol and chlorinated solvents  
 Resistance to UV (black colored cable ties)\*

\*The black cable ties are loaded with carbon black. Therefore they possess UV resistance according to standard ISO QUV-B 4892 (150 hours), equivalent to 3 years of exposure to sunlight. They are also particularly recommended for external applications.

### Information

**EC directives**

The material used to produce our cable ties complies with the following EC directives:  
 2000/53/EC (VHU)  
 2002/65/UE (RoHS)  
 2002/96/EC (DEEE)  
 2006/95/EC

Technical data & Ordering information

| Width | Designation           | Length in mm | Maximum diameter in mm | Resistance to traction in Kgs | White Product No. | Black Product No. | Red Product No. | Yellow Product No. | Green Product No. | Blue Product No. |
|-------|-----------------------|--------------|------------------------|-------------------------------|-------------------|-------------------|-----------------|--------------------|-------------------|------------------|
| 2.5   | CABLE TIE 2.5 x 98    | 98           | 21                     | 8                             | 0860 0110 201     | 0860 0210 201     | 0860 0310 201   | 0860 0320 201      | 0860 0330 201     | 0860 0340 201    |
| 2.6   | CABLE TIE 2.6 x 160   | 160          | 40                     | 8                             | 0860 0110 302     | 0860 0210 302     |                 |                    |                   |                  |
| 3.5   | CABLE TIE 3.5 x 140   | 140          | 35                     | 13                            | 0860 0110 401     | 0860 0210 401     | 0860 0310 401   | 0860 0320 401      | 0860 0330 401     | 0860 0340 401    |
|       | CABLE TIE 3.5 x 200   | 200          | 50                     | 13                            | 0860 0110 402     | 0860 0210 402     | 0860 0310 402   | 0860 0320 402      | 0860 0330 402     | 0860 0340 402    |
|       | CABLE TIE 3.5 x 290   | 290          | 80                     | 13                            | 0860 0110 403     | 0860 0210 403     |                 |                    |                   |                  |
|       | CABLE TIE 3.5 x 370   | 370          | 103                    | 13                            | 0860 0110 404     | 0860 0210 404     |                 |                    |                   |                  |
| 4.5   | CABLE TIE 4.5 x 120   | 120          | 24                     | 20                            | 0860 0110 501     | 0860 0210 501     |                 |                    |                   |                  |
|       | CABLE TIE 4.5 x 160   | 160          | 40                     | 20                            | 0860 0110 502     | 0860 0210 502     |                 |                    |                   |                  |
|       | CABLE TIE 4.5 x 200   | 200          | 50                     | 22                            | 0860 0110 602     | 0860 0210 602     | 0860 0310 601   | 0860 0320 601      | 0860 0330 601     | 0860 0340 601    |
| 4.8   | CABLE TIE 4.8 x 178   | 178          | 45                     | 22                            | 0860 0110 601     | 0860 0210 601     |                 |                    |                   |                  |
|       | CABLE TIE 4.8 x 250   | 250          | 68                     | 22                            | 0860 0110 603     | 0860 0210 603     |                 |                    |                   |                  |
| 4.5   | CABLE TIE 4.5 x 290   | 290          | 79                     | 22                            | 0860 0110 604     | 0860 0210 604     | 0860 0310 602   | 0860 0320 602      | 0860 0330 602     | 0860 0340 602    |
|       | CABLE TIE 4.5 x 360   | 360          | 103                    | 22                            | 0860 0110 605     | 0860 0210 605     |                 |                    |                   |                  |
| 4.8   | CABLE TIE 4.8 x 390   | 390          | 106                    | 22                            | 0860 0110 606     | 0860 0210 606     |                 |                    |                   |                  |
| 4.5   | CABLE TIE 4.5 x 430   | 430          | 115                    | 22                            | 0860 0110 607     | 0860 0210 607     |                 |                    |                   |                  |
| 7.8   | CABLE TIE 7.8 x 180   | 180          | 45                     | 55                            | 0860 0110 702     | 0860 0210 702     |                 |                    |                   |                  |
|       | CABLE TIE 7.8 x 240   | 240          | 63                     | 55                            | 0860 0110 703     | 0860 0210 703     |                 |                    |                   |                  |
|       | CABLE TIE 7.8 x 300   | 300          | 80                     | 55                            | 0860 0110 704     | 0860 0210 704     |                 |                    |                   |                  |
| 7.5   | CABLE TIE 7.5 x 365   | 365          | 100                    | 55                            | 0860 0110 705     | 0860 0210 705     |                 |                    |                   |                  |
|       | CABLE TIE 7.5 x 450   | 450          | 130                    | 55                            | 0860 0110 706     | 0860 0210 706     |                 |                    |                   |                  |
|       | CABLE TIE 7.5 x 540   | 540          | 158                    | 55                            | 0860 0110 707     | 0860 0210 707     |                 |                    |                   |                  |
|       | CABLE TIE 7.5 x 750   | 750          | 200                    | 55                            | 0860 0110 708     | 0860 0210 708     |                 |                    |                   |                  |
| 9     | CABLE TIE 9 x 780     | 780          | 233                    | 77                            | 0860 0110 801     | 0860 0210 801     |                 |                    |                   |                  |
| 12.5  | CABLE TIE 12.5 x 500  | 500          | 143                    | 110                           | 0860 0110 902     | 0860 0210 902     |                 |                    |                   |                  |
|       | CABLE TIE 12.5 x 1000 | 1000         | 302                    | 110                           | 0860 0110 905     | 0860 0210 905     |                 |                    |                   |                  |



Refer to pages 189 and 193.