



### 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)

2002/95/EC (RoHS)

2002/96/EC (DEEE)

2003/11/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				

NORMAFIX®



Refer to pages 189 and 193.