

**Tool
TRENDS** | Electrical



CIMCO CABLE TIES

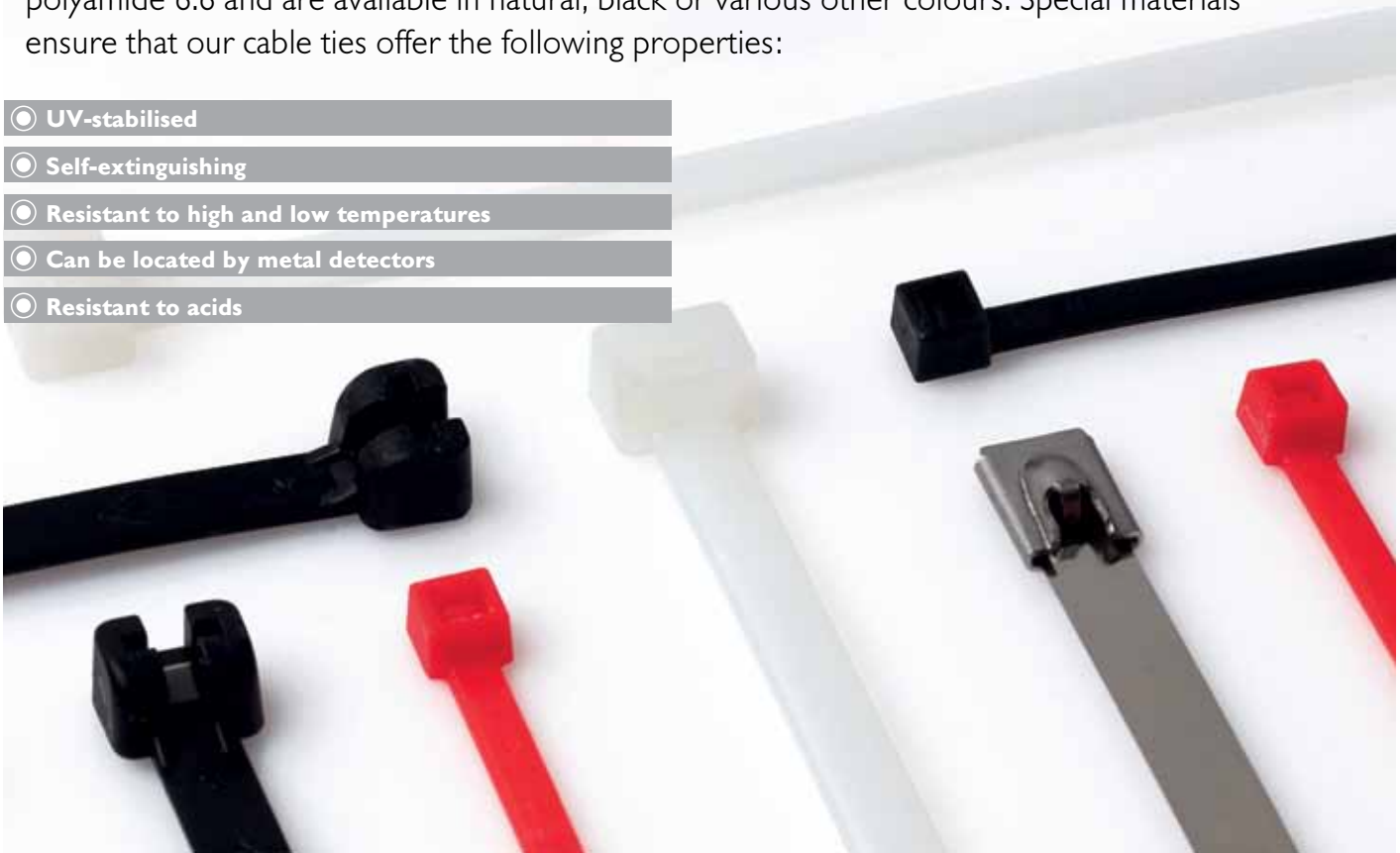
Fastening solutions for professionals



cimco

Cable ties are a standard fastening solution in today's electrical installations because they are easy to use and create a long-lasting closure. CIMCO cable ties are made from halogen-free polyamide 6.6 and are available in natural, black or various other colours. Special materials ensure that our cable ties offer the following properties:

- UV-stabilised
- Self-extinguishing
- Resistant to high and low temperatures
- Can be located by metal detectors
- Resistant to acids



DURABILITY

We subject our range of cable ties to an extensive number of specific tests, so you can rest assured they will not let you down. They undergo regular tests at extreme temperatures, dynamic load tests and flame retardance tests to ensure they will function correctly in such conditions – and to guarantee long-lasting product quality.



TEMPERATURE TEST

Checks that the product works correctly at minimal operating temperatures



OPENING TEST

Checks the closure's stability via dynamic load tests



RESISTANCE TEST

Measures the product's resistance to flame



SELF-EXTINGUISHING TEST

Verifies that the product extinguishes itself within a specified time

CERTIFICATION

All our cable ties meet the requirements of EN 62275 and fulfil strict international certification standards. The raw materials we use are RoHS and REACH-compliant, while the transparent packaging which the polyamide cable ties are supplied in is fully recyclable.



Underwriters Laboratories Listed products

Product type 21/215/2/25, file E160935 (UL Standard 62275, CSA-C22.2 No. 62275, IEC 62275, EN 62275)



RINA

Type approval certificate ELE325617CS (reference standard IEC 60092-101, UL 62275)



Underwriters Laboratories Recognized products

Product type 11, file E160935 (UL Standard 62275, CSA-C22.2 No. 62275)



DNV

Type approval certificate no. TAE00003E9, TAE00003EA (reference standard IEC 62275 and UL 62275)



LLOYD'S Register

LR type approval certificate no. LR2139366TA (reference standard UL 62275, EN 62275)



Bureau Veritas

Certificate of type approval no. 09113/E0 BV (reference standard IEC 62275)

PRODUCT VARIETY

CIMCO offers a huge selection of cable ties. From standard cable ties suitable for practically every application in electrical installations, right through to cable ties for special applications: CIMCO will always have exactly the right fastening solution!



CABLE TIES WITH STEEL TONGUE

Very robust and up to 60% stronger than standard cable ties.



PA 6.6 CABLE TIES

Standard cable ties, which are suitable for practically every application in electrical installations.



CABLE TIES FOR HIGH DEMANDS

Thanks to their customised properties, these ties can meet especially high demands in terms of detectability, UV protection or flame retardance, for example.



STEEL CABLE TIES

Cable ties made from stainless steel live up to extreme demands: resistant to corrosion, UV and temperature.



CABLE TIES WITH LABELLING SURFACE

For individual markings, e.g. when cables are concealed.



RELEASABLE CABLE TIES

So easy to re-use.



ACCESSORIES FOR CABLE TIES

Versatile fastening solutions for screwing, plugging or sticking; clamping and cutting tools.

NYLON CABLE TIES – NATURAL AND BLACK



- PA 6.6
- -40 to +85 °C
- UL 94 V-2

THE STANDARD FOR ELECTRICAL INSTALLATIONS

Cable ties made from PA 6.6 in black or natural are the standard solution to meet practically every requirement when it comes to electrical installations. Halogen-free, UV-stabilised (black). Self-extinguishing, flammability class UL 94 V-2, temperature resistance -40 °C to 85 °C. Certification: UL, RINA, DNV, LR, Bureau Veritas.

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no., natural	CIMCO-item no., black	
2.5	75	2-16	80	100	18 1360	18 1860	
	100	2-24		100	18 1361	18 1861	
	135	2-35		100	18 1362	18 1862	
	160	2-42		100	18 1402	18 1802	
	200	2-55		100	18 1363	18 1863	
3.5	140	3-36	150	100	18 1364	18 1864	
	200	3-55		100	18 1404	18 1804	
	280	3-80		100	18 1378	18 1878	
	160	3-38		100	18 1365	18 1865	
4.5	180	3-45	220	100	18 1366	18 1866	
	200	3-51		100	18 1367	18 1867	
	250	5-68		100	18 1379	18 1879	
	280	5-76		100	18 1368	18 1868	
	360	5-101		100	18 1369	18 1869	
	380	5-110		100	18 1408	18 1808	
	180	5-44		460	100	18 1371	18 1871
	240	5-62			100	18 1372	18 1872
280	5-76	100	18 1377		18 1877		
360	5-101	100	18 1373		18 1873		
7.5	450	20-130	680	100	18 1374	18 1874	
	540	20-160		100	18 1375	18 1875	
	750	32-222		100	18 1376	18 1876	
	780	20-235		100	18 1390	18 1890	
	920	40-280		100	18 1391	18 1891	
	1220	50-375		100	18 1394	18 1894	
	500	10-140		980	50	18 1392	18 1892
750	40-222	50	18 1393		18 1893		
1000	40-300	50	18 1395		18 1895		



NYLON CABLE TIES – COLOURED



- PA 6.6
- -40 to +85 °C
- UL 94 V-2

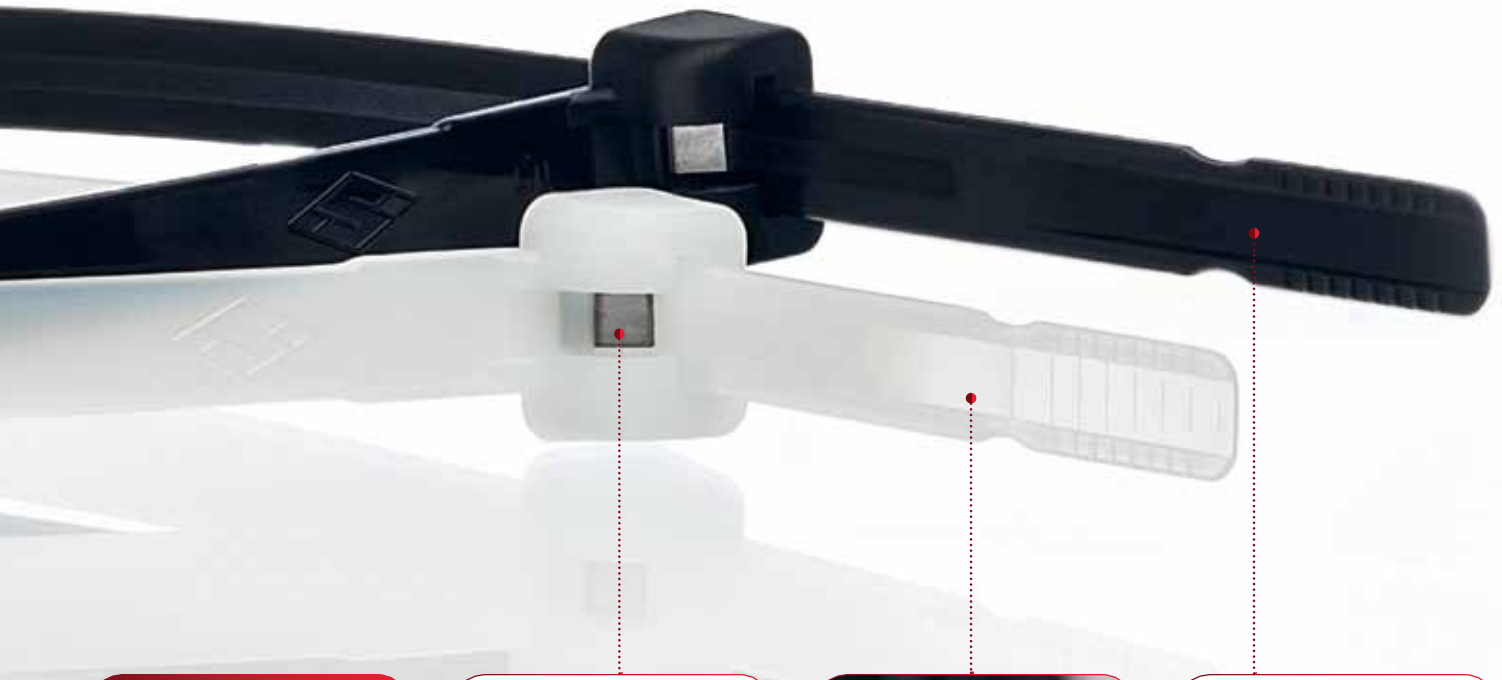
MARKINGS MADE EASY

Coloured cable ties make it so simple to mark and label cable harnesses and bundles. Halogen and silicone-free. Self-extinguishing, flammability class UL 94 V-2, temperature resistance -40 °C to 85 °C. Certification: UL, RINA, DNV, LR, Bureau Veritas.

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
red (RAL 3000)					
2.5	100	2-24	80	100	18 1450
3.5	140	3-36	150	100	18 1452
4.5	200	3-51	220	100	18 1454
4.5	280	5-76	220	100	18 1456
blue (RAL 5002)					
2.5	100	2-24	80	100	18 1460
3.5	140	3-36	150	100	18 1462
4.5	200	3-51	220	100	18 1464
4.5	280	5-76	220	100	18 1466
green (RAL 6024)					
2.5	100	2-24	80	100	18 1470
3.5	140	3-36	150	100	18 1472
4.5	200	3-51	220	100	18 1474
4.5	280	5-76	220	100	18 1476
yellow (RAL 1021)					
2.5	100	2-24	80	100	18 1480
3.5	140	3-36	150	100	18 1482
4.5	200	3-51	220	100	18 1484
4.5	280	5-76	220	100	18 1486



Additional colours available upon request.




POWERFUL

Cable ties with a stainless steel tongue are up to 60% stronger than standard cable ties.

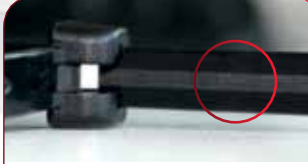
+ 60%



ROBUST

Tongue made from austenitic stainless steel for good strength. Slots securely into any position on the cable tie.

The result: maximum resistance against opening!



FLEXIBLE

Notches positioned in the centre mean the cable ties are very flexible, while also providing maximum retention force.

The result: maximum flexibility and strength combined!



ERGONOMIC

Indentations on both sides and a specially shaped strap make insertion noticeably easier.

The result: less force required for fast and accurate working!

CABLE TIES WITH STEEL TONGUE

STRONG AND ROBUST

Cable ties made from PA 6.6 with a stainless steel tongue, for increased strength. Halogen-free, UV-stabilised (black). Metal tongue made from V4A stainless steel, anti-magnetic and resistant to corrosion. Self-extinguishing, flammability class UL 94 V-2, temperature resistance -40 °C to 85 °C. Certification: UL, RINA, DNV, LR, Bureau Veritas.

- PA 6.6
- -40 to +85 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no., natural	CIMCO-item no., black
2.5	100	2-24	130	100	18 1338	18 1738
	200	2-55		100	18 1336	18 1736
3.5	140	2-36	180	100	18 1339	18 1739
	200	2-55		100	18 1340	18 1740
	280	2-80		100	18 1341	18 1741
	360	3-101		100	18 1342	18 1742
4.5	186	3-51	360	100	18 1343	18 1743
	290	3-80		100	18 1344	18 1744
	360	3-103		100	18 1345	18 1745
7.5	360	6-101	530	50	18 1347	18 1747
For large cable harness diameters						
7.0	762	6-229	540	50	18 1348	18 1748



CABLE TIES – UV-RESISTANT



FOR A LONGER SERVICE LIFE OUTDOORS

UV-resistant cable ties made from PA 6.6 with a service life up to ten times longer than standard cable ties. Made from UV-resistant black granules only. Cold-resistant to -40 °C. Ideal for use outdoors, e.g. when installing solar panels. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C. Colour: black. Certification: UL, RINA, DNV, LR, Bureau Veritas.

- PA 6.6
- -40 to +85 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
3.5	140	3–36	150	100	18 1720
4.5	200	3–51	220	100	18 1722
4.5	280	5–76	220	100	18 1723
4.5	360	5–101	220	100	18 1724
7.5	360	5–101	460	100	18 1726



CABLE TIES – FLAME-RESISTANT



THE FLAME-RETARDANT VERSION

Cable ties made from PA 6.6, flammability class UL 94 V-0. Meets especially high demands in terms of flame retardance: the material must not burn longer than 10 seconds nor ignite combustible materials underneath it. Halogen-free, temperature resistance -20 °C to +80 °C. Minimum installation temperature 0 °C. Colour: milk white.

- PA 6.6
- -20 to +80 °C
- UL 94 V-0

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
3.5	140	3–36	140	100	18 1728
4.5	280	5–76	175	100	18 1731
4.5	360	5–101	175	100	18 1732
7.5	360	5–101	430	100	18 1734



CABLE TIES – TEMPERATURE-RESISTANT



FOR HIGH CONTINUOUS TEMPERATURES

Cable ties made from PA 6.6, permanently resistant to temperatures up to +105 °C thanks to special additives in the raw material. Halogen-free. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +105 °C. Colour: pale green.

- PA 6.6
- -40 to +105 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
3.5	140	3–36	150	100	18 1710
4.5	200	3–51	220	100	18 1712
4.5	280	5–76	220	100	18 1713
4.5	360	5–101	220	100	18 1714
7.5	360	5–101	460	100	18 1716



EXPERT TIP 1

FIRE BEHAVIOUR ACCORDING TO UL 94

The fire behaviour of cable ties is classified according to the UL 94 V flammability classes (vertical test). While class V-2 permits a maximum burning time of 30 seconds and allows the dripping of burning specimens, the highest class of cable tie V-0 must have a maximum burning time of 10 seconds. The dripping of burning specimens is not allowed in this class.

Class UL 94 HB (horizontal test) is a requirement below the level of UL 94 V. In this case, the material burns slowly and must have extinguished by a certain time. These cable ties are classed as self-extinguishing.

Test criteria (extract from UL 94 V) UL 94 V-0 UL 94 V-1 UL 94 V-2

Burning time after flame application (s)	≤10	≤30	≤30
Burning time + after-glow time after flame application (s)	≤30	≤60	≤60
Dripping of burning test specimen	No	No	Yes



CIMCO "FLAME-RESISTANT" cable ties are class V-0 and therefore meet the highest demands laid down by UL 94 V!

CABLE TIES – DETECTABLE



- PA 6.6
- -25 to +65 °C
- UL 94 HB

FOR SAFETY IN THE FOOD, CHEMICALS OR PHARMACEUTICALS INDUSTRY

Cable ties made from PA 6.6, can be detected thanks to added metal chips. Metal detectors or X-ray machines can detect even the tiniest fragments. Self-extinguishing according to UL 94 HB.
 Temperature resistance: -25 °C to +65 °C, colour: blue.

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
2.5	100	2–24	80	100	18 1750
3.5	140	3–36	160	100	18 1752
4.5	200	3–51	200	100	18 1754
4.5	280	5–76	200	100	18 1756
4.5	380	5–110	200	100	18 1758
7.5	360	5–101	500	100	18 1760



CABLE TIES – TEFZEL®



- ETFE
- -60 to +170 °C
- UL 94 V-0

HIGHLY RESISTANT TO SOLVENTS AND CHEMICALS

All-purpose cable ties made from ETFE fluoropolymer, locking lug made from type 316 stainless steel.
 Operating temperature: -60 °C to +170 °C. Silicon-free, highly resistant to most solvents, chemicals, acids, alkalis, oils and greases. Resistant to radioactivity, suitable for use in nuclear power plants and medical technology.
 Self-extinguishing, flammability class UL 94 V-0. Colour: aquamarine.

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
4.5	186	3–48	220	100	18 1487
4.5	360	3–102	220	100	18 1488
7.0	338	6–95	540	100	18 1489



EXPERT TIP 2

STORING CABLE TIES

Cable ties made from PA 6.6 nylon absorb and release moisture. This ensures the material remains flexible and does not become brittle. When they are in their original sealed packaging, the cable ties will be kept moist accordingly. To prevent them from drying out, do not remove the products from this packaging until you are ready to use them. Once the packaging has been opened, you should use the cable ties without delay.

Ideal storage conditions would be a temperature of 23 °C and humidity of 50%. Do not install the cable ties at a temperature below -10 °C.



CABLE TIES – RELEASABLE



WITH A SIMPLE OPENING MECHANISM

Cable ties made from PA 6.6, can be released again. Extra long unlocking tongue means the cable tie can be opened easily, without the need for tools. Ideal for provisional work and where modifications need to be made retrospectively. Can be re-used multiple times. Halogen-free. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -15 °C to +75 °C. Certification: RINA, DNV, LR, Bureau Veritas.



- PA 6.6
- -15 to +75 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no., natural	CIMCO-item no., black
7.5	200	up to 10–50	280	100	18 1490	18 1495
7.5	280	up to 10–76	280	100	18 1491	18 1496
7.5	360	up to 10–100	280	100	18 1492	18 1497

CABLE TIES WITH LABELLING SURFACE



FOR EASILY IDENTIFYING CABLES

Cable ties made from PA 6.6, with labelling plate positioned horizontally or vertically. For individual markings, e.g. when cables are concealed. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C. Colour: natural. Certification: RINA, DNV, LR, Bureau Veritas.



- PA 6.6
- -40 to +85 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	Size of labelling surface mm x mm	PU	CIMCO-item no.
2.5	100	10–25	90	25 x 8	100	18 1420
2.5	200	10–50	90	25 x 8	100	18 1422
4.8	200	16–55	220	13 x 37	100	18 1424
4.8	290	16–80	220	13 x 37	100	18 1426

PLUG-IN CABLE TIES



FOR A SECURE HOLD IN DRILL HOLES

Cable ties made from polyamide 6.6, with expansion anchor head for fast and secure installation in drill holes (5 mm ø), clamping area up to 3 mm, especially suited for use in vehicle and engine construction, as well as the aerospace industry. Halogen-free. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C. Colour: black. Certification: RINA, DNV, LR, Bureau Veritas.



- PA 6.6
- -40 to +85 °C
- UL 94 V-2

Width mm	Length mm	Cable harness ø mm	Minimal tensile strength N	PU	CIMCO-item no.
3.5	150	4–32	150	100	18 1850

CABLE TIES – PRINTED

TAILOR-MADE TO CUSTOMER REQUIREMENTS

Cable ties are custom printed to client's specification, variable printing ink colour. For special marking, registration and labelling of cables, equipment and many other components, including for closure and tamper-proof sealing. For cable ties of any length at least 4.5 mm wide and 1 mm thick.

Bear minimum order quantities in mind. We would be happy to advise you on technical details and answer your questions about processing (delivery times, pricing, etc.).



STEEL CABLE TIES



FOR EXTREME DEMANDS

For extreme demands in machine and vehicle construction, signalling systems, shipbuilding, mining, the food and chemicals industries, power plants, subways, buildings, switch cabinets, on oil rigs and so on.
Cable ties with UL approval (temperature resistance -40 °C to +30 °C, natural).

Cable ties made from AISI 316 stainless steel (DIN 1.4401), with ball lock. Resistant to corrosion and radiation, anti-magnetic. Extremely resistant to aggressive chemicals. Steel thickness 0.26 mm (width 4.6/7.9 mm) or 0.32 mm (width 12 mm).
Additional features in the black version: coated with polyester, UV-stabilised and halogen-free.
Temperature resistance: -80 °C to +538 °C (natural) or -80 °C to +538/150 °C (black, steel/polyester).
Certification: UL, DNV, LR.

Width mm	Length mm	Max. cable harness ø mm	Minimal tensile strength NPU		CIMCO-item no. uncoated	CIMCO-item no. black, coated
4.6	100	20	550	100	18 6000	18 6100
	125	27		100	18 6001	18 6101
	150	44		100	18 6002	18 6102
	200	50		100	18 6003	18 6103
	290	75		100	18 6004	18 6104
	360	102		100	18 6005	18 6105
7.9	520	152	1200	25	18 6006	18 6106
	200	50		100	18 6010	18 6110
	290	75		100	18 6011	18 6111
	360	102		100	18 6012	18 6112
	520	152		25	18 6013	18 6113
	680	203		50	18 6014	18 6114
12.0	840	254	2200	25	18 6015	18 6115
	1000	318		25	18 6016	18 6116
	290	75		25	18 6020	18 6120
	360	102		25	18 6021	18 6121
	520	152		25	18 6022	18 6122
	680	203		25	18 6023	18 6123
	840	254	25	18 6024	18 6124	
	1000	318	25	18 6025	18 6125	



SLE STEEL CABLE TIES



FOR A SECURE HOLD

Cable ties made from AISI 316 stainless steel (DIN 1.4401) in a ladder format, coated with polyester.
Secure closure using a hole matrix. Resistant to corrosion and radiation, anti-magnetic, UV-stabilised and halogen-free.
Extremely resistant to aggressive chemicals. Steel thickness 0.30 mm (width 7 mm) or 0.35 mm (width 12 mm).
Temperature resistance: -80 °C to +538/150 °C. Colour: black, coated. Certification: UL, DNV, LR.

Width mm	Length mm	Max. cable harness ø mm	Minimal tensile strength NPU		CIMCO-item no.
7.0	150	45	445	100	18 6130
7.0	225	70	445	100	18 6132
7.0	300	95	445	100	18 6134
7.0	360	105	445	100	18 6136
7.0	450	140	445	50	18 6138
7.0	610	190	445	50	18 6140
12.0	200	50	890	100	18 6142
12.0	360	100	890	100	18 6144
12.0	450	135	890	50	18 6146
12.0	610	185	890	50	18 6148
12.0	750	230	890	25	18 6150



WITH ADJUSTABLE CLAMPING FORCE AND AUTOMATIC CUTTING FUNCTION



Clamping force shown in the display window.

Ergonomic pistol-type tool, for cable ties made from PA 6.6. Suitable for cable ties with a width of 2.2 mm to 4.8 mm. Clamping force can be adjusted to max. 12 kg using a dial, value shown in a display window. Built-in automatic cutting tool, cut performed automatically when clamping ends. With clamping and cutting function.

Dimensions: L 155 x W 125 x H 20 mm, weight 310 g



Version	PU	CIMCO-item no.
Adjustable	1	10 1930

HEAVY-DUTY VERSION FOR CABLE TIES WITH A LARGE WIDTH

Robust steel-sheet tool, for cable ties made from PA 6.6. Suitable for cable ties with a width up to 12.5 mm. With built-in manual cutting function using extra handle. With clamping and cutting function.

Dimensions: L 195 x W 100 x H 25 mm, weight 260 g



Version	PU	CIMCO-item no.
Heavy-duty version	1	10 1931

FOR STAINLESS STEEL CABLE TIES

Robust steel-sheet tool, for cable ties made from stainless steel. Suitable for cable ties with a width up to 12 mm. With built-in manual cutting function using extra lever. With clamping and cutting function.

Dimensions: L 210 x W 120 x H 40 mm, weight 570 g



Version	PU	CIMCO-item no.
For steel ties (ball-end or ladder type)	1	10 1935

ASSEMBLY DOWELS FOR CABLE TIES

Journal mount made from PA 6.6 nylon for drill holes in the wall, Ø 6 or 8 mm. Halogen and silicone-free. For cable ties up to 9 mm in width. Self-extinguishing, flammability class UL 94 HB. Temperature resistance -40 °C to +85 °C. Colour: black

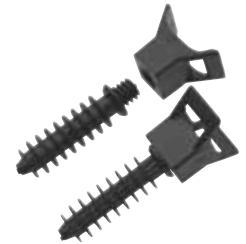
Head width mm	Head length mm	Head height mm	Length mm	Drill hole	PU	CIMCO-item no.
14.5	11.0	6.3	36.0	6.0	100	18 1762
14.5	11.0	6.3	41.0	8.0	100	18 1764



WALL DOWEL CABLE TIE HOLDER

Cable tie holder made from PA 6.6 nylon for drill holes in the wall, Ø 8 mm, screw-on head. Halogen and silicone-free. For cable ties up to 9 mm in width. Self-extinguishing, flammability class UL 94 HB. Temperature resistance -40 °C to +85 °C. Colour: black.

Size mm	PU	CIMCO-item no.
10 x 13	1	18 1386



CABLE CLIPS

Clip mount for cable ties made from PA 6.6 nylon, self-adhesive. Suitable for smooth, hard surfaces. Halogen and silicone-free. For cable ties up to 9 mm in width. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C. Colour: natural.

Length mm	Width mm	Height mm	Max. cable ø mm	PU	CIMCO-item no.
19	19	8	5	100	18 1381
26	26	12	10	100	18 1383
26	26	17	15	100	18 1385



FASTENING ELEMENT FOR SCREWING OR STICKING

Screw-on mount made from PA 6.6 nylon, with screw fastening. Halogen and silicone-free. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C.

Version	Dimensions mm		For cable ties up to max. width mm	For screw up to ø mm	PU	CIMCO-item no.
	For cable ties up to max. width mm	For screw up to ø mm				
natural	20 x 10	5.3	4	100	18 1380	
natural	30 x 15	9.4	4	100	18 1389	



Stick-on mount made from PA 6.6 nylon, self-adhesive. Suitable for smooth, hard surfaces. Halogen and silicone-free. Self-extinguishing, flammability class: UL 94 V-2. Temperature resistance: -40 °C to +85 °C. Also suitable for screwing on.

Version	Dimensions mm		For cable ties up to max. width mm	For screw up to ø mm	PU	CIMCO-item no.
	For cable ties up to max. width mm	For screw up to ø mm				
natural	19 x 19	4.3	4	100	18 1382	
black	19 x 19	4.3	4	100	18 1882	
natural	27 x 27	5.5	4	100	18 1384	
black	27 x 27	5.5	4	100	18 1884	





www.cimco-international.com

Technical modifications, colour deviations, price changes, errors and misprints reserved.
Offer only valid while stocks last. Sale only via specialist wholesalers.