

CABLE TIES

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Standard

The standard solution for the tradesman, tested quality at good prices. Available in different colours.

Re-openable

For multiple use.

Steel tongue

Hard-wearing, with stainless steel tongue.



Steel cable ties

The anti-magnetic stainless steel ties coated and uncoated for demanding applications, conditions and environment.

TEFZEL cable ties

Resistant to exposure to chemicals, radioactivity and environmental factors.

Cable ties

Raw material:

Pure polyamide 6.6 (PA 6.6, nylon) with no recycling material content, raw materials procured solely from leading quality manufacturers, colours: natural or black (RAL 9011) through enrichment with carbon (carbon black).

Material properties:

Self-extinguishing according to UL 94-V2, melting point +260 °C, halogen-free, silicon-free, non-toxic, food-safe according to Recommendation "X" (10) BGA (German Health Authority), non-conductive, high abrasion resistance, low frictional resistance, impact-resistant, recyclable. Black cable ties retain the moisture in the plastic, thus preventing embrittlement, hardening and fragility. Black cable ties are thus suitable for outdoor applications and weatherproof for at least two years.

Chemical resistance:

Resistant to (among others) oils, petroleum products (e.g. petrol, kerosene, fats and lubricants), hydrocarbons (e.g. lower alcohols, acetone), cleaning agents and solvents, alkalis, mould, salt water. Conditionally resistant among others, to strongly diluted acids. Non-resistant to, amongst others, phenols, oxidising chemicals, formic acid, phosphoric acid, chlorine, chloric acid (e.g. hydrochloric acid, butanoic acid), benzoic acid, mineral acids.

Conditions for processing and use:

Installation temperature (during assembly) -10 °C to +80 °C, continuous service temperature (after assembly) -40 °C to +105 °C, possible changes in length depending on temperature (between -20 °C and +100 °C) maximum ± 1.5%, depending on relative humidity (between 25% and 100%) maximum ± 3%, no changes in length due to ageing if cable ties are not under load.

Information for the storage of cable ties:

Leave cable ties in the sealed packaging until needed to prevent drying out, store in cool, not particularly dry places, away from sources of heat. Naturally coloured cable ties can turn yellow after an extended period of time due to temperature-dependent oxidation. This will not affect performance properties.

Packaging:

Packaged in synthetic transparent foil, 100 % recyclable, vacuum sealed.

Approvals and Quality Certifications:

Products comply with EN 62275, the IEC Standard IEC 92-101, flame retardant according to UL 94-V2, "Yellow Card" certification from Underwriters Laboratories Inc., self-extinguishing in accordance with UL 94, flame class 94V-2, self-extinguishing in accordance with ISO 1210, flame class FV-2, minimum binding strength according to Standard MIL-S-23190 E.



UNDERWRITERS
LABORATORIES INC.



GERMANISCHER
LLOYD



natural colour

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength kp	N				
2.5	75	2 - 16	9	88	100	18 1360		
	100	2 - 24					100	18 1361
	135	2 - 35					100	18 1362
	160	2 - 42					100	18 1402
	200	2 - 55					100	18 1363
3.5	140	2.5 - 36	18	176	100	18 1364		
	200	2.5 - 55					100	18 1404
	280	2.5 - 80					100	18 1378
4.5	160	2.5 - 40	22	216	100	18 1365		
	180	3 - 45					100	18 1366
	200	3 - 51					100	18 1367
	250	5 - 70					100	18 1379
	280	5 - 76					100	18 1368
	360	5 - 101					100	18 1369
	380	5 - 110					100	18 1408
7.5	180	5 - 46	60	588	100	18 1371		
	240	5 - 64					100	18 1372
	280	5 - 76					100	18 1377
	360	5 - 101					100	18 1373
	450	18 - 132					100	18 1374
9.0	540	20 - 160	80	784	100	18 1375		
	750	32 - 222					100	18 1376
	780	20 - 235					100	18 1390
	920	40 - 280					100	18 1391
12.5	1220	50 - 375	110	1080	100	18 1394		
	500	10 - 140					50	18 1392
	750	40 - 225					50	18 1393
	1000	40 - 300			50	18 1395		



Cable ties

black (RAL 9011) = weather-proof design, conditionally UV resistant.

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
2.5	75	2 - 16	9	88	100	18 1860
	100	2 - 24			100	18 1861
	135	2 - 35			100	18 1862
	160	2 - 42			100	18 1802
	200	2 - 55			100	18 1863
3.5	140	2.5 - 36	18	176	100	18 1864
	200	2.5 - 55			100	18 1804
	280	2.5 - 80			100	18 1878
4.5	160	2.5 - 40	22	216	100	18 1865
	180	3 - 45			100	18 1866
	200	3 - 51			100	18 1867
	250	5 - 70			100	18 1879
	280	5 - 76			100	18 1868
7.5	360	5 - 101			100	18 1869
	180	5 - 46	60	588	100	18 1871
	240	5 - 64			100	18 1872
	280	5 - 76			100	18 1877
	360	5 - 101			100	18 1873
	450	18 - 132			100	18 1874
	540	20 - 160			100	18 1875
9.0	750	32 - 222			100	18 1876
	780	20 - 235	80	784	100	18 1890
	920	40 - 280			100	18 1891
	1220	50 - 375			100	18 1894
12.5	500	10 - 140	110	1080	50	18 1892
	750	40 - 225			50	18 1893
	1000	40 - 300			50	18 1895



Re-openable cable ties

made of polyamide 6.6, after opening re-usable as often as required, simple release by pressing a finger on the tab

Width mm	Length mm	Bundle ø mm	Minimum tensile strength			
			kp			
natural colour						
7.5	200	to 50	36		100	18 1490
	280	to 76	36		100	18 1491
	360	to 100	36		100	18 1492
black (RAL 9011) = weather-proof design, UV resistance						
7.5	200	to 50	36		100	18 1495
	280	to 76	36		100	18 1496
	360	to 100	36		100	18 1497



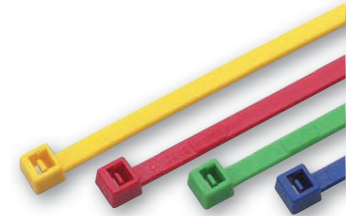
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Coloured cable ties

for labelling and marking

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
red (RAL 3000)						
2.5	100	2 - 24	9	88	100	18 1450
3.5	140	2.5 - 36	18	176	100	18 1452
4.5	200	3 - 51	22	216	100	18 1454
	280	5 - 76			100	18 1456
blue (RAL 5002)						
2.5	100	2 - 24	9	88	100	18 1460
3.5	140	2.5 - 36	18	176	100	18 1462
4.5	200	3 - 51	22	216	100	18 1464
	280	5 - 76			100	18 1466
green (RAL 6024)						
2.5	100	2 - 24	9	88	100	18 1470
3.5	140	2.5 - 36	18	176	100	18 1472
4.5	200	3 - 51	22	216	100	18 1474
	280	5 - 76			100	18 1476
yellow (RAL 1021)						
2.5	100	2 - 24	9	88	100	18 1480
3.5	140	2.5 - 36	18	176	100	18 1482
4.5	200	3 - 51	22	216	100	18 1484
	280	5 - 76			100	18 1486

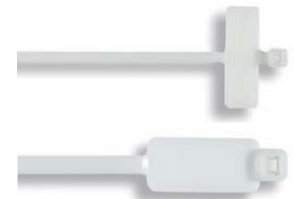
Other colours available upon request. Please inquire for minimum order quantity, price and delivery times.



Cable ties with labelling surface

made of polyamide 6.6, natural colour

Width mm	Length mm	Cable harness ø mm	Size mm x mm		
2.5	100	4.0 - 18	8 x 25	100	18 1420
2.5	200	4.0 - 50	8 x 25	100	18 1422
4.8	190	15 - 50	10 x 28	100	18 1424
4.8	270	15 - 75	10 x 28	100	18 1426



Printed cable ties

Cable ties can be custom printed, also with logo, serial numbers and variable printing ink colour.

For special marking, registration and marking of cables, equipment and many other components, even for closure and tamper-proof sealing of packages, mailing bags, sacks, etc. For use in electrical engineering, machine- and vehicle construction, logistics, food and pharmaceutical industries, public authorities, etc. For cable ties of any length with at least 1 mm thickness, min. order quantity per printing order 30,000 cable ties.

We are happy to advise you about technical details and questions of processing, delivery times, pricing etc.



Plug-in cable ties

Cable ties made from polyamide 6.6, black, self-extinguishing according to UL 94 V-2, with expansion anchor head for fast and safe installation in drill holes (approx. 5 mm ø) by means of force fitting, affixing and bundling of cables in one working step, especially suited for use in vehicle and engine construction, as well as the aerospace industry.

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
3.5	140	max. 32	18	176	100	18 1850



Cable ties with steel tongue

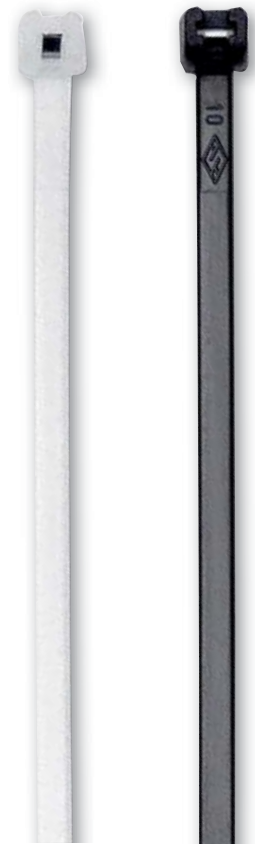
made of polyamide 6.6, with corrosion-resistant, anti-magnetic, stainless steel tongue
natural colour

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
2.5	100	2 - 16	8	80	100	18 1338
	200	2 - 50			100	18 1336
2.4	356	2 - 102			100	18 1337
3.5	140	2 - 29	18	180	100	18 1339
	200	2 - 50			100	18 1340
	280	2 - 76			100	18 1341
3.6	368	2 - 103			100	18 1342
4.5	200	3.5 - 54	22	220	100	18 1343
	290	3.5 - 78			100	18 1344
	360	3.5 - 102			100	18 1345
7.5	360	6 - 90	55	540	50	18 1347
7.0	762	6 - 229			50	18 1348

black

2.5	100	2 - 16	8	80	100	18 1738
	200	2 - 50			100	18 1736
2.4	356	2 - 102			100	18 1737
3.5	140	2 - 29	18	180	100	18 1739
	200	2 - 50			100	18 1740
	280	2 - 76			100	18 1741
3.6	368	2 - 103			100	18 1742
4.5	200	3.5 - 54	22	220	100	18 1743
	290	3.5 - 78			100	18 1744
	360	3.5 - 102			100	18 1745
7.5	360	6 - 90	55	540	50	18 1747
7.0	762	6 - 229			50	18 1748

Packaging unit 1000 pieces upon request.



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Heat-resistant cable ties

Special additives to the raw material create permanently temperature-resistant cable ties up to +130 °C, properties otherwise the same as standard cable ties, basic material pure polyamide 6.6 without recycling content, colour pale green.

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength kpN			
3.5	140	2.5 - 36	18	176	100	18 1710
4.5	200	3 - 51	22	216	100	18 1712
	280	5 - 76			100	18 1713
	360	5 - 101			100	18 1714
7.5	360	5 - 101	60	588	100	18 1716



UV and cold-resistant cable ties

Continual exposure to UV radiation and cold causes standard cable ties to become brittle. They will eventually crack following continuous exposure. The addition of special carbons increases the service life of UV-resistant cable ties by approx. a factor of ten, for up to 10 years when used correctly. They are also resistant to cold up to -40 °C.

These cable ties are thus ideal for outdoor use and at continuously low temperatures.

Flammability rating according to UL 94 HB, colour black (RAL 9011).

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
3.5	140	2.5 - 36	16	158	100	18 1720
4.5	200	3 - 51	20	194	100	18 1722
	280	5 - 76			100	18 1723
	360	5 - 101			100	18 1724
7.5	360	5 - 101	54	529	100	18 1726



Flame-resistant, self-extinguishing cable ties

for use in areas requiring especially high flame retardant properties. Flame retardance according to UL 94 V-0:

The flame-retardant material must not burn longer than 10 seconds nor ignite combustible materials underneath it.

Halogen-free, can be used in a temperature range of -20 °C to +80 °C. Colour milk white.

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
3.5	140	2.5 - 36	14	140	100	18 1728
	280	5 - 76			100	18 1731
	360	5 - 101			100	18 1732
7.5	360	5 - 101	48	470	100	18 1734



TEFZEL® cable ties

Cable ties made from ethylene tetrafluorethylene copolymer. Very high resistance to UV radiation, radioactivity, many aggressive chemicals (incl. acids, alkalis, oxidising agents, metal salt solutions, oils, fats), windproof and weatherproof, does not absorb water, heat-stable and flame-retardant (UL 94 V 0), service temperature -50 °C to +150 °C, the ideal tie for use in nuclear power plants, the chemical industry, refineries, etc.

Width mm	Length mm	Cable harness ø mm	Min. tensile strength			
			N			
4.8	186	46	100		100	18 1487
	360	104	100		100	18 1488
7.0	338	85	320		50	18 1489



Fastening element for cable ties

natural colour

Fastening	Dimensions mm	for cable ties up to max. mm width	for screw up to ø mm		
For screwing	20 x 10	4.8	4	100	18 1380
	30 x 15	9.0	4	100	18 1389
For bonding					
Adhesive (self-adhesive) + screw, natural colours	19 x 19	3.6	4	100	18 1382
Adhesive (self-adhesive) + screw, black	19 x 19	3.6	4	100	18 1882
Adhesive (self-adhesive) + screw, natural colours	27 x 27	4.8	4	100	18 1384
Adhesive (self-adhesive) + screw, black	27 x 27	4.8	4	100	18 1884



Cable clips

Suitable for fastening and release at any time of one or several hoses, round cables and lines of different diameters. Especially suitable when laying cables on very smooth, hard surfaces and in places difficult to access, where the use of normal fastening elements / cable ties is not possible.

Made from polyamide 6.6, natural colour, self-adhesive.

Black available on request.

Length mm	Width mm	Height mm	max. cable ø mm		
19	19	10	5	100	18 1381
26	26	13	10	100	18 1383
26	26	18	15	100	18 1385



Wall dowel cable tie holder

For fastening cables, cable bundles, pipes/tubes etc. on masonry, for drilled holes 7 to 8 mm in diameter, screw-on head for easy adjustment of height and alignment of the holding block, distance from cable to wall approx. 12 mm

for cable ties up to 9 mm in width	10 x 13	100	18 1386
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Spiral bands

to bundle and protect cables in cable manufacturing, in the electronics industry, as well as in switch cabinet-, controller- and plant engineering. For efficient and tidy bundling and laying of cables, wiring, cable harnesses and wire bundles. Also for protecting cables from abrasion or other damage, as well as for stiffening cable harnesses. Customised lengths possible, thus no material wastage. Easily adaptable to different bundle diameters, re-openable and reusable. In the case of spiral bands wound at a distance, the material usage is lower, the cable bundles are more flexible and branches consisting of one or more cables are possible at any point without problem. Ideal for subsequent winding around cable bundles. Made of polyethylene (PE), temperature-resistant from -20 °C to +65 °C, flame resistant, halogen-free, silicone-free

1 roll each = 10 m length.

Bundle ø mm	Spiral mm width	Outer ø mm		
natural colour				
4 - 20	7.0	6	1	18 6200
6 - 60	11.4	10	1	18 6202
9 - 70	13.9	12	1	18 6204
12 - 80	15.0	15	1	18 6206
15 - 100	18.2	19	1	18 6208
25 - 130	19.6	24	1	18 6210
black				
4 - 20	7.0	6	1	18 6220
6 - 60	11.4	10	1	18 6222
9 - 70	13.9	12	1	18 6224
12 - 80	15.0	15	1	18 6226
15 - 100	18.2	19	1	18 6228
25 - 130	19.6	24	1	18 6230



Adjustable cable tie clamping and cutting tool

in pistol format for cable ties with a width of 2.2 mm to 4.8 mm, clamping strength adjustable to max. 12 kg and with automatic cutting tool. Weight 303 g.

adjustable	175 mm	1	10 1930
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Cable tie clamping and cutting tool Heavy duty

in sheet steel for cable ties with a width of 2.3 mm to 12.5 mm, with integrated cutting tool. Weight 320 g.

heavy duty version	195 mm	1	10 1931
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Cable tie bag

for all standard cable ties, sewn in hard-wearing, double padded material, with elastic band retainer and belt loop function. When removing individual cable ties from the bag, the elastic band prevents the remaining ties from falling out.

280 mm x 70 mm x 45 mm	1	17 0120
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Steel cable ties

made from stainless steel 316 (DIN 1.4401), with ball closure, resistant to corrosion and radiation, anti-magnetic, extremely resistant to high temperatures (steel -80 °C to +538 °C) and aggressive chemicals, steel thickness 0.25 mm, Spec./approval UL. For use in machine- and vehicle construction, signalling systems, shipbuilding and mining, in the food- and chemical industries, in power plants, subways, buildings, switch cabinets, on oil rigs etc.

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
4.6	100	20	56	550	100	18 6000
	125	27				18 6001
	150	44				18 6002
	200	50				18 6003
	290	75				18 6004
	360	102				18 6005
7.9	200	50	122	1200	100	18 6010
	290	75				18 6011
	360	102				18 6012
	520	152				25 18 6013
	680	203				25 18 6014
	840	254				25 18 6015
12.0	1000	318	224	2200	25	18 6016
	290	75				18 6020
	360	102				18 6021
	520	152				18 6022
	680	203				18 6023
	840	254				18 6024
	1000	318			25	18 6025

with protective cable coating made from epoxy resin polyester, halogen-free, black

Width mm	Length mm	Cable harness ø mm	Minimum tensile strength			
			kp	N		
4.6	100	20	56	550	100	18 6100
	150	44				18 6102
	200	50				18 6103
	290	75				18 6104
	360	102				18 6105
	520	152				25 18 6106
7.9	200	50	122	1200	100	18 6110
	290	75				18 6111
	360	102				18 6112
	520	152				25 18 6113
	680	203				25 18 6114
	840	254				25 18 6115
12.0	1000	318	224	2200	25	18 6116
	290	75				18 6120
	360	102				18 6121
	520	152				18 6122
	680	203				18 6123
	840	254				18 6124
	1000	318			25	18 6125

Clamping tool

made of steel, for clamping of steel ties up to 12 mm in width, even with protective cable coating, with rotating cutter for burr-free cutting edges

Length mm		
205	1	10 1935



Velcro ties (Velcro tape cable ties and retaining strips)

Areas of application:

For bundling, fastening, affixing, and many other uses. Especially suitable for the installation of sensitive cables (network cabling, telecommunications, fibre optics) and whenever frequent closing and opening of the ties is required (e.g. pre-assembly of cable harnesses).

Special product features:

Soft, flexible surface for minimum load on cable bundles, avoidance of unintentional damage of cables due to sharp or hard edges, even and flush contact over the entire circumference of the cable bundle, Velcro closure technique adheres in any position, easy to open and close, quick installation without the use of tools, high tensile and shearing strength, adjustable, multiple-use, low wear for long service life, durable, non-fading colours, washable with no risk of damage, light-resistant, UV-resistant and sweat-resistant, waterproof and resistant to saltwater, no wastage during use, in a range of dimensions.

Velcro tape belt with synthetic eyelet

manufactured from woven polyamide, in two colours red/black to facilitate use, belt end without hook for rapid opening of the tie, suitable for up to 10,000 tie openings, tensile strength 260 N/cm, thickness approx. 2 mm (the minimum tensile load given is valid with at least 50 mm band overlap), silicone- and halogen-free.

Width mm	Length mm		
25	240	10	18 1900
25	300	10	18 1902
25	360	10	18 1904

Velcro tape

made of black, extruded polyamide velour laminate, tensile strength min. 120 N/cm, thickness approx. 1.4 mm, self-adhesive back-to-back, suitable for approx. 200 actuations. Apart from the standard colour black, also available in white, red, blue, green, yellow. Please enquire about minimum order quantity, delivery time approx. 8 weeks.

Velcro ties with tab, cut to binding lengths for common electrical installations

Width mm	Length mm		
7	200	25	18 1910
13	200	25	18 1912
16	300	25	18 1914

Velcro ties on rolls, roll length 25 m, tensile strength min. 120 N/cm, custom-cut lengths

Width mm	Length mm		
13	25	1 roll	18 1920
16	25	1 roll	18 1922
20	25	1 roll	18 1924
25	25	1 roll	18 1926
30	25	1 roll	18 1928

Self-adhesive Velcro tape

self-adhesive hook and loop tape ideal for individual and secure fastenings and yet always separable. Velcro tape can simply be cut to the desired length, according to requirements.

Material strength min. 210 N/cm, shear strength 10.3 N/cm², approx. 10,000 actuations possible.

Adhesive: rubber-resin based, temperature range: -15 °C to +90 °C

Supplied in dispenser box, each with one roll of hook and loop tape

Width mm	Length m		
20	10	1	18 1980
50	25	1	18 1982



Markings

Self-laminating cable markers

Cable markers for simple, fast and permanent identification of cables.

Clear PV 006, self-adhesive soft PVC foil, 0.08 mm thick. Protects the inscription block from mechanical influences.

The marker consists of a patented, transparent press-on section, white inscription surface, transparent protective section.

Temperature-resistant from -30 °C to +120 °C, permanent adhesive strength, high UV-resistance. Resistant to dirt, moisture, alcohol, petroleum-based oils. Inscription with pencil, pen, printer etc.

Pocket format

Inscription block mm	Max. cable ø mm	Quantity per package	Length mm		
25 x 25	14	60	75	10	18 2650
25 x 25	38	30	150	10	18 2652
25 x 25	63	30	250	10	18 2654
Sheet					
10 x 23	7	40	38	10	18 2656
25 x 23	14	20	75	10	18 2658

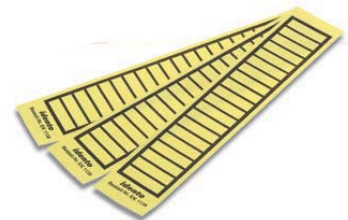


Hand inscription labels

self-adhesive inscription labels in yellow woven fabric for tagging of electrical systems, equipment identification, stock and item labelling. Easy to inscribe with pencil, pen and typewriter.

Self-adhesive PVC-impregnated woven fabric in yellow with black border, 0.15 mm thick. Temperature-resistant from -30 °C to +80 °C, good adhesion, resistant to ageing.

	Quantity per sheet	Dimensions mm		
	40	11 x 19	10	18 2660
	20	25 x 38	10	18 2662



Inspection stickers

Inspection stickers are used in quality assurance (QA) processes according to DIN EN ISO 9000 ff, in association with, e.g. legally stipulated inspections and within the context of the German Accident Prevention Guidelines (UVV). This especially applies to the monitoring of testing devices, equipment and systems, as well as important supply lines (cables, pipes/tubes). There are two ways to affix the inspection stickers: directly onto the inspected equipment or onto one of the basic stickers provided, which are affixed to the equipment. The date of inspection is documented with a writing instrument or notch pliers. The inspection stickers consist of tamper-proof document foil, i.e. to prevent misuse, the sticker is irrevocably destroyed when an attempt is made to remove it.

Document foil properties:

The document foil can be marked using pencil, pen, felt pen or typewriter. It is 0.05 mm thick and temperature-resistant from -30 °C to +80 °C. The adhesive strength is greater than the tear strength of the foil.

The foil breaks when removed and is largely resistant to ageing, weather and light. It is also resistant to water, salt water, alcohol, aliphatic solvents as well as petroleum-based oils and fats.

	ø mm	Quantity per sheet		
red "flash"	15	10	1	18 2670
yellow "flash"	15	10	1	18 2672
green "16"	20	8	1	18 2686
yellow "17"	20	8	1	18 2687
green "18"	20	8	1	18 2688
yellow "19"	20	8	1	18 2689
green "20"	20	8	1	18 2692
yellow "21"	20	8	1	18 2693



Control pliers

for paper punches and thin plastics, e.g. for the simple marking of stickers before they are removed from the backing material. Opening depth 30 mm

round recess 3 mm ø 120 1 10 1650

Please specify any custom recess when ordering.



Basic stickers

The self-adhesive basic sticker consists of white, write-on plastic foil, to which stickers can be repeatedly attached. It adheres well to a clean surface and is destroyed when removed. The document foil is resistant to water, aliphatic solvents and petroleum-based oils and fats.

Quantity
per sheet Dimensions
mm

25 92 x 40 1 18 2690



Identification of conductors

The self-adhesive foil symbols for the marking of non-insulated and insulated conductors, housings, switch cabinets and equipment are available in a range of sizes on a sheet for rapid application. The symbols correspond to the German Industrial Standards DIN 40 009, DIN 40 011 and the IEC. Material: Self-adhesive PVC foil with lamination, 0.10 mm thick. Temperature resistant from -30 °C to +100 °C, dirt-repellent, durable adhesive power. ø: 12.5 mm

Quantity
per sheet

Outer conductor 1, black 10 10 18 2620

Outer conductor 2, black 10 10 18 2622

Outer conductor 3, black 10 10 18 2624

Neutral conductor N, blue 10 10 18 2626

Protective conductor PE, green-yellow 10 10 18 2628

Neutral conductor protective function 10 10 18 2630

Earth 10 10 18 2632

Earth, does not comply with DIN 40 011 10 10 18 2634

