

ADHESIVE TAPES, HEAT-SHRINKABLE/ COUPLING SLEEVE TECHNOLOGY, TUBES

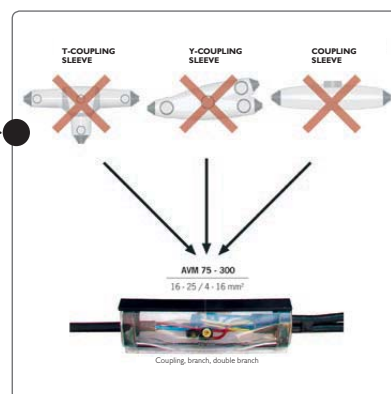
Large pour-in opening

The coupling sleeve sliders allow the coupling sleeve to be easily and reliably poured, even in a sloping position.



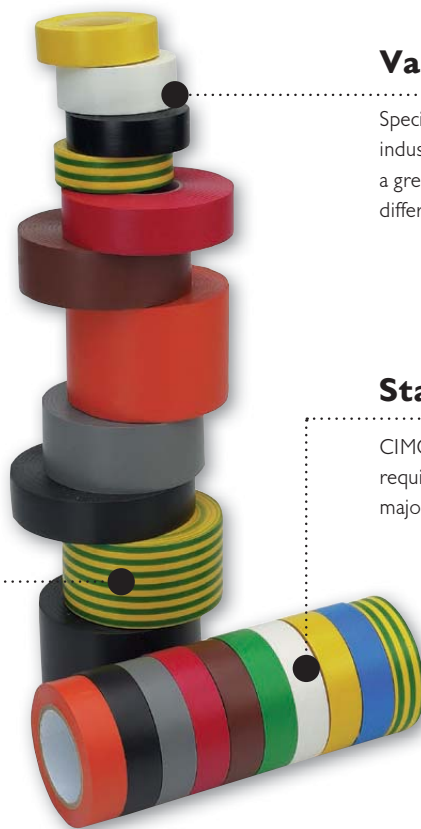
Wide range of applications

Three different connections can be created with one coupling sleeve.



Practical application

The easy solution for protecting cable connections from dust and damp (IP 68). Can be removed at any time after the gel mass has cured.



Variety

Specially designed for use in the electrical industry and trade, our range comprises a great variety of adhesive tapes for different uses.

Standards

CIMCO adhesive tapes comply with the requirements of DIN EN 60454 and in the majority of cases exceed them.

Quality

Technical adhesive tapes from CIMCO offer constant excellent performance characteristics during installation as well as in long-term continuous use.

PVC adhesive tapes

Universal insulating tapes

Description:

PVC membrane, coated on one side with non-corrosive, pressure sensitive rubber adhesive.

Special features:

Flame-retardant, self-extinguishing, good electrical and mechanical properties, waterproof, weather- and UV-resistant, silicone-free. Certified according to DIN EN 60454 - Part 2

Typical areas of use:

All-round adhesive tape in excellent quality, for bundling, standard insulation, coloured marking (e.g. green-yellow protective conductor) and reinforcing, ideal for many electrical installation and repair tasks.

black	15	10	120	16 0100
white			120	16 0101
grey			120	16 0102
yellow			120	16 0103
blue			120	16 0104
red			120	16 0105
violet			120	16 0106
green			120	16 0107
brown			120	16 0108
green-yellow			120	16 0109
black	15	20	60	16 0110
white			60	16 0111
grey			60	16 0112
yellow			60	16 0113
blue			60	16 0114
red			60	16 0115
violet			60	16 0116
green			60	16 0117
brown			60	16 0118
green-yellow			60	16 0119
black	19	20	48	16 0130
white			48	16 0131
grey			48	16 0132
yellow			48	16 0133
blue			48	16 0134
red			48	16 0135
violet			48	16 0136
green			48	16 0137
brown			48	16 0138
green-yellow			48	16 0139
black	25	20	36	16 0140
white			36	16 0141
grey			36	16 0142
yellow			36	16 0143
blue			36	16 0144
red			36	16 0145
violet			36	16 0146
brown			36	16 0148
green-yellow			36	16 0149
black	30	20	30	16 0150
black	38	20	24	16 0160
black	50	20	18	16 0170
Rainbow pack				
10 assorted colours	15	10	100	16 0000



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Insulating tapes for phase marking

Description:

PVC membrane, coated on one side with non-corrosive, pressure sensitive rubber adhesive.

Special features:

Black with white print L1, L2 and L3, blue with white print N.

Typical areas of use:

Electrical insulation tapes for marking the conductor phase of multi-core cables.

black, L1	15	10	100	16 0201
black, L2	15	10	100	16 0202
black, L3	15	10	100	16 0203
blue, N	15	10	100	16 0204
Assortment, 4-pieces, L1, L2, L3, N15		10	1	16 0205



High performance electrical insulation tape for high temperatures, VDE

Description:

PVC membrane, coated on one side with non-corrosive, pressure sensitive rubber adhesive.

Special features:

Excellent resistance to high temperatures up to +105 °C, flame-retardant, self-extinguishing, UV- and weather-resistant, VDE approved. Approved according to EN 60 454 Type 10

Typical areas of use:

Insulating and repair tasks indoors and outdoors, in particular for use with the persistent influence of higher temperatures, e.g. cable wrapping on engines and in bodywork areas, wrapping of cable harnesses for motor vehicles, washing machines, dishwashers, for general thermal insulation, for bundling and for reinforcing as mechanical protection.

black	19	33	48	16 0250
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All weather high performance electrical insulation tape

Description:

PVC membrane, coated on one side with non-corrosive, pressure sensitive rubber adhesive.

Special features:

Excellent resistance and working properties, even at low temperatures (down to -20 °C), flame-retardant, self-extinguishing, UV- and weather resistant. Approved according to EN 60 454 Type 11

Typical areas of use:

Insulating- and repair tasks indoors and outdoors, in particular for outdoor use in extreme weather conditions, above all at low temperatures and great fluctuations in temperature, sealing and joining of medium-voltage cables, insulation and sealing of cold-storage rooms, general thermal insulation.

black	19	20	48	16 0260
black	25	20	36	16 0262



Corrosion protection tapes

Description:

Particularly strong PVC membrane, coated on one side with non-corrosive, aggressive adhesive

Special features:

Heavy duty PVC adhesive tapes with high abrasion resistance, UV and water-resistant (including salt water), resistant to alkaline solutions and many acids and micro-organisms, bitumen compatible.

Typical areas of use:

As an external wrap for additional protection against wear due to abrasion, weather influences and corrosion, thereby extending the service life and reducing frequent maintenance work. Examples: As protection against stone impact, kicking and scratches for exposed cables and underground cables, pipes and connection points of cables and pipelines, corrosion protection of exposed cables and lines (e.g. on ships, in wet areas, in the chemical industry), outstanding mechanical and corrosion protection for installation pipes and masts that are buried underground, base protection for electrical appliances (washing machines, tumble driers, chest freezers).

Tape thickness 0.25 mm, for heavy duty use

silver-coloured	50	33	18	16 0280
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Tape thickness 0.44 mm, for particularly heavy duty use

black	50	33	18	16 0282
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Self-amalgamating insulating tapes

Self-amalgamating high voltage insulating tape up to 35 kV

Description:

Cold amalgamating insulating tape made from polyisobutylene, with an easy to pull off plastic separating layer.

Special features:

Amalgamated after processing under slight tension to form a solid airtight and waterproof rubber layer, extremely expandable (elongation at break 600%) and able to be adapted to any form, permanently elastic, compatible with all materials for insulation and sheathing, wide application temperature range, very good electrical properties (in particular dielectric strength), resistant to UV, ozone, weather and ageing, non silicone-free.

Typical areas of use:

Ideal for sealing, splicing, insulating and the repair of current-carrying cables, mainly for the voltage insulation of power cables up to 17 kV/mm, very good repair properties even on heavy rubber hose lines, for the watertight sealing of electrical joints and connections (e.g. TV satellite dishes), for fastening cables outdoors, corrosion protection of metal parts, also perfectly suitable for emergency repairs on radiators, water- and engine hoses, vacuum cleaner hoses, sinks and waste pipes.

black, 0.5 mm thick	19	10	42	16 2840
	25	10	36	16 2841



Self-amalgamating insulating tape for extreme temperatures

Description:

Cold amalgamating insulating tape made of polyethylene, with easy to pull off plastic separating layer.

Special features:

Amalgamated after processing under slight tension to form a solid airtight and waterproof mass, extremely expandable (elongation at break 600%) and can be adapted to any form, permanently elastic, compatible with all materials for insulating and sheathing, extraordinary wide application temperature range, very good electrical properties (in particular dielectric strength), resistant to ozone, weather and ageing, outstanding resistance to alkaline solutions, hydraulic fluids and other chemical substances.

Typical areas of use:

Purposes the same as high voltage insulation tape CIMCO article no. 16 2840 – 16 2841, however additional excellent resistance to very high and very low temperatures (-35 °C to +95 °C, short-term up to 130 °C) as well as to many chemicals, for demanding insulation tasks up to 34 kV/mm and for the retention of the chemical resistance at increased temperatures.

black	19	10	42	16 2830
	25	10	36	16 2831



Woven insulation tapes

Universal quality woven tape

Description:

Extruded woven tape, coated on the one side with waterproof polyethylene coating, on the other side with an aggressive, non-corrosive, pressure-sensitive adhesive.

Special features:

Matt, water- and weatherproof equipment, very easy to write on with pencil, ball-point pen, permanent marker, felt pen and etching pen, largely resistant to many chemicals, insensitive to softeners and oil vapours, very good electrical properties, can be easily torn off laterally and particularly neatly by hand.

Typical areas of use:

Universal gaffer tape for trade and industry: coloured identification and marking of cables, electrical components, pipes and ducts, labelling of switch cabinets, distributors, patch bays, for bundling, fixing, securing and reinforcing of cables, pipes and tubes, for masking during decorating and painting work.

black	15	50	80	16 2000
white			80	16 2001
grey			80	16 2002
blue			80	16 2003
yellow			80	16 2004
red			80	16 2005
green			80	16 2006
black	19	50	64	16 2010
white			64	16 2011
grey			64	16 2012
blue			64	16 2013
yellow			64	16 2014
red			64	16 2015
green			64	16 2016
black	25	50	48	16 2020
white			48	16 2021
grey			48	16 2022
blue			48	16 2023
yellow			48	16 2024
red			48	16 2025
green			48	16 2026
black	30	50	40	16 2030
white			40	16 2031
grey			40	16 2032
blue			40	16 2033
yellow			40	16 2034
red			40	16 2035
green			40	16 2036
black	38	50	32	16 2040
white			32	16 2041
grey			32	16 2042
blue			32	16 2043
yellow			32	16 2044
red			32	16 2045
green			32	16 2046
black	50	50	24	16 2050
white			24	16 2051
grey			24	16 2052
blue			24	16 2053
yellow			24	16 2054
red			24	16 2055
green			24	16 2056



Special adhesive tapes

Aluminium foil adhesive tape

Description:

Aluminium foil, 40 µm (0.04 mm) thick, coated on one side with pressure sensitive acrylic adhesive. The tape is laminated with strong, polyethylene-coated separating paper.

Special features:

Heat deflecting, light reflecting, moisture resistant, very low water permeability (water vapour barrier).

Typical areas of use:

Heat protection and shielding of electromagnetic fields on electronic equipment, sealing of cooling insulation, bonding of intersections of aluminium foil-laminated insulation mats and insulating panels made from rock wool or fibre glass, sealing of metal or plastic ducts, applications with more stringent requirements of preventive fire protection, e.g. flame protection wrap for the installation of cables.

silver-coloured	50	50	24	16 2900
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Filament adhesive tape with mesh thread reinforcement

Description:

Carrier layer made from polypropylene, reinforced with meshed nylon threads running lengthwise and across for the full length of the tape, coated on one side with rubber adhesive.

Special features:

Excellent resistance to abrasion, extremely tear resistant (longitudinal and lateral strength), no fraying at the sides, strong immediate adhesion.

Typical areas of use:

Bundling and pulling through cables and wiring harnesses, high-strength package tape for sealing and reinforcing even heavy packages, e.g. cardboard boxes and cartons, strapping heavy packages and other goods, banding plastic and metal tubes, metal rods, etc.

transparent	50	50	18	16 2950
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Double-sided adhesive foam tape

Description:

Closed-cell polyethylene foam, coated on both sides with acrylic-based adhesive, comes with separating paper.

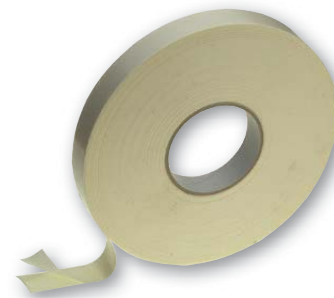
Special features:

Excellent resistance to pressure, very pliable, very good resistance to UV, ageing, moisture, oils, solvents and softeners, strong immediate adhesion.

Typical areas of use:

Used for diverse installations of heavy loads, even vertical, indoors and outdoors, instead of riveting, screwing and liquid adhesives, also particularly good for bonding onto non-elastic materials with irregular, rough surfaces (wood, masonry, concrete, coats of paint): surface-mounting of cable ducts, cable clamps, switchboxes, attachment of badges, displays and signs, both made from and onto plastic, shock-proof and vibration-damped soft mounting of assemblies (e.g. circuit boards, switch panels, fittings), effective reduction of the transmission of noise (rattle protection), form-fit seals against dust, water, vapour, wind and light, also for sealing air outlets to save energy.

white	15	33	20	16 2861
	19	33	16	16 2862
	25	33	12	16 2863



Paper masking tape

Low crepe paper masking tape, 0.16 mm. thick. Medium adhesion thanks to rubber-based adhesive.

Suitable for indoor use.

Special features:

High tear resistance of approx. 114 N / 25 mm and medium adhesion of 6.2 N / 25 mm. Temperature resistant up to max. 85 °C for 1 hour. The crepe allows it to adapt very well to different substrates and radii.

Typical areas of use:

Masking of areas to be blocked when painting and varnishing.

beige	19	50	1	16 0302
	25	50	1	16 0304
	38	50	1	16 0306
	50	50	1	16 0308



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Type of adhesive tape from CIMCO article no. to CIMCO article no.	Tape thickness (mm)	Tear resistance (N/10 mm)	Elongation at rupture (Elongation at break (%)) (ohh/25 mm width)	Insulating resistance (ohm/25 mm width)	Adhesive strength Adhesive strength on steel (N/10 mm)	Dielectric strength w/ regard to spec. tape dimensions (kV)	Temperature resistance (°C)	min		max		Flame resistance (self-extinguishing)	Flame resistance (flame-retardant)	Water resistant	Salt water resistant	UV-resistant	Ozone-resistant	Resistance to chemicals	Abrasion-resistance	Aging-resistance	Shape-stable	Easy to break-off	Easy to unroll	Residue-free removal	Incrustable					
PVC insulation adhesive tapes																														
16 0000 - 16 0170	0.13	26	180	1 x 10 ¹¹	2.4	2.1	8	-5	+70	0	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0201 - 16 0204	0.18	40	250	5 x 10 ¹³	2.3	1.7	10	-5	+70	0	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0250 - 16 0252	0.15	25	150	1 x 10 ¹¹	3.0	2.6	9.5	-5	+105	0	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0260 - 16 0262	0.19	30	200	5 x 10 ¹³	2.2	2.0	10	-20	+105	-10	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0270	0.23	55	300	5 x 10 ¹³	2.5	2.0	10	-5	+70	+10	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0280	0.25	44	220		3.3	3.0	10	-5	+80	+5	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
16 0282	0.44	90	200		3.0	2.6	12	+5	+80	+5	+40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Self-adhering tapes																														
16 2800	1				-	-	16/mm	-30	+80	0	+40			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	part.			Yes	Yes	Yes	Yes		
16 2810	2				-	-	16/mm	-30	+80	0	+40			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	part.			Yes	Yes	Yes	Yes		
16 2820	3				2 x 10 ¹⁰		16/mm	-30	+80	0	+40			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	part.			Yes	Yes	Yes	Yes		
16 2840 - 16 2841	0.5	12	600	1 x 10 ¹³	-	-	40/mm	-95	+95	0	+40			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				Yes	Yes	Yes	Yes		
16 2830 - 16 2831	0.5	20	600	1 x 10 ¹⁵	-	-	35/mm	-40	+90	0	+10			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	part.			Yes	Yes	Yes	Yes		
Fabric adhesive tapes																														
16 2000 - 16 2156	0.33	85	8		4.0	2.2	3	-50	+80	+10	+45			Yes											good		Yes	Yes	Yes	Yes
16 2500 - 16 2502	0.18	280	5	1 x 10 ¹²	4.0	2.5	0	+130	+10	+10					Yes												Yes			
16 2510 - 16 2512	0.18	280	5	1 x 10 ¹²	3.5	2.5	0	+155	+10	+10					Yes												Yes			
16 2520 - 16 2522	0.18	280	5	1 x 10 ¹⁵	3.0	2.5	0	+180	+10	+40	Yes				Yes					Yes						Yes				
Special adhesive tapes																														
16 2900	0.08	22	5		3.8	3.8		-20	+110	0	+40	Yes	Yes			Yes											Yes	Yes		
16 2950	0.13	280	10		8.0			0	+80	+10	+25			Yes												excellent		Yes	Yes	
16 2860 - 16 2863	0.85	11	300		10.0	10.0		-10	+100	+10	+40			Yes		Yes				Yes						Yes	Yes			
16 0302 - 16 0308	0.16	45	10		2.5			+5	+85	+5	+25			part.												Yes	Yes	Yes	Yes	Yes

Mechanical coupling sleeves

Quick and simple assembly makes mechanical coupling sleeves optimally suited as repair and connection sleeves or branch tee couplings.

Mechanical cable joint box TDM

for fast and secure connection of communication-, control- and supply lines. Waterproof (IP 68), UV-resistant, resistant to alkaline earths and rot, joint box body made from impact-resistant plastic, with screw lid, with lug to secure the seal against unauthorised access. Suitable for connecting up to four cables. The cable joint box meets the ÖVE IM22 standard. Scope of delivery: one cable joint box with sleeve insert, five cable ties, can of lubricant, cutter, assembly instructions.

Type	Conductor cross-section in mm ² clearance	Application range ø mm		
TDM 1	3 x 1.5 to 5 x 2.5	6 - 14	1	18 4760
TDM 2	3 x 1.5 to 5 x 16	6 - 25	1	18 4762

Accessories				
Spanner set TDM 2			1	18 4764
Replacement sleeve for TDM 1			1	18 4766
Replacement sleeve for TDM 2			1	18 4768



Mechanical connecting sleeves (MVM) and branch couplings (MAM)

suitable for connecting from 2 to 6 cables (with double sleeves 4 to 12 cables). Waterproof (IP 68), high mechanical stability, resistant to acid earth, separate strain relief for each entry.

Type	Application range ø mm		
MVM 23/200	8 - 23 mm (8 - 13 mm)*	1	18 4160
MVM 42/320	8 - 42 mm (8 - 16 mm/8-23 mm)*	1	18 4162
MAM 23/200	8 - 23 mm (8 - 13 mm)*	1	18 4166
MAM 42/320	8 - 42 mm (8 - 16 mm/8-23 mm)*	1	18 4168

* If double sleeves are used, the values in brackets apply.



Cast resin joints

Cast resin joint

non-flammable according to VDE 0304 Part 3

The joint body consists of a transparent, thermoplastic material and as a result is extremely resistant to chemical and mechanical influences. The polyurethane foam seals are highly reliable, preventing the escape of resin before it has cured.

The casting resin

according to VDE 0291 Part 2

Polyurethane casting resin is an unfilled, low viscosity, elastic curing two-component system.

Technical data:

- Can be stored for 24 months
- Storage in dry rooms between +5 °C and +50 °C
- Curing within 24 hours
- Temperature resistant between -25 °C and +120 °C in the cured state
- Resin and hardener can be disposed of in domestic waste

1 kV cast resin joint sets including joint casing and pack of casting resin in cans

consisting of joint casing, including polyurethane casting resin and hardener, one pair of disposable gloves, one spatula, two foam seals and abrasive paper.

Type	Wire cross-section in mm ²		Fill quantity resin/hardener		
	Clearance	Branch			
AVM 40-175 D	3 x 1.5 to 5 x 6	3 x 1.5 to 5 x 4	0.225 kg	1	18 4660
AVM 55-220 D	5 x 6 to 10	5 x 2.5 to 10	0.615 kg	1	18 4662
AVM 75-300 D	4 x 16 to 25	5 x 4 to 16	1.350 kg	1	18 4664
AVM 95-400 D	4 x 35 to 70	4 x 16 to 25	2.500 kg	1	18 4666
AVM 110-500 D	4 x 95 to 150	4 x 25 to 50	4.700 kg	1	18 4668

1 kV two-component casting resin set as can pack

including stirrer, gloves and instructions

Type	Fill quantities			
	Resin	Hardener		
PUR 160-200 D	0.225 kg	172 cm ³	1	18 4680
PUR 160-400 D	0.400 kg	345 cm ³	1	18 4682
PUR 160-615 D	0.615 kg	528 cm ³	1	18 4770



Shrink-on coupling sleeves

Shrink-on coupling sleeves for compression connector or screw connector 1kV

Thick-walled electrical shrink-on sleeves (heat shrinking) with outstanding mechanical strength, chemical resistance and electrical properties. Lined with hot melt adhesive, thus giving excellent protection against water and damp. For the long-term connection of plastic cables laid in the ground and also on cable trays or in the open air. Resistant to environmental influences, e.g. UV rays, ozone, oxygen, acids, alkaline earths.

Type	Wire cross-section in mm ²	Cable ø mm	Hose length mm		
1.5 – 6/3	3 x 1.5 to 6	11 – 18	200 x 60	1	18 4060
1.5 – 6/5	5 x 1.5 to 6	13 – 21	200 x 60	1	18 4062
6 – 16/5	5 x 6 to 16	18 – 25	450 x 100	1	18 4064
6 – 25	4 x 6 to 25	16 – 32	450 x 100	1	18 4066
16 – 50	4 x 16 to 50	21 – 36	550 x 150	1	18 4068
50 – 150	4 x 50 to 150	29 – 54	650 x 200	1	18 4070



Connectors

Screw connectors or branch and connector terminals for 1 kV cast resin joints, shrink-on sleeve couplings and mechanical box and branch joints (MVM and MAM).

Screw connectors

Type	Wire cross-section in mm ²			
brass	1.5 – 16	only Cu	1	18 0960
tin-coated	6 – 25	Cu and Al	1	18 0962



Branch and connector terminals

Type	Wire cross-section in mm ²			
brass	1.5 – 10	Cu and Al	1	18 0964
brass	2.5 – 16	Cu and Al	1	18 0966
brass	6 – 25	Cu and Al	1	18 0968



ALPA-GEL

The simple solution for protecting cable connections from dust and damp (IP 68). After the gel mass has cured, removal is possible at any time. The solvent-free two-component silicone gel, mixing ratio 1:1 and with a dielectric strength of 20 KV/mm, is supplied in 2 different pack sizes with mixing jug, mixing spatula and disposable gloves.



250 ml	1	15 1010
1,000 ml	1	15 1012

Large pack without mixing jug, mixing spatula and disposable gloves	1	15 1014
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Heat-shrink tubes

Made from homogenous polyolefin, thermally stabilised, cross-linked by irradiation, with outstanding mechanical stability, chemical resistance and electrical properties:

Significant mechanical performance properties (typical measured values):

Tensile strength 14.8 MPa / min (N/mm²), tensile strength after heat ageing 14.5 MPa / min (N/mm²), elongation at break 460%, elongation at break after heat ageing (168 h at +158 °C) 480%, thermal shock (4 h at +250 °C) 8% with complete shrinkage, cold shock (1 h at -30 °C) no breaking. Continuous operation temperature -55 °C to +125 °C. Very good printability with heat seal-, inkjet- and offset printing.

Significant chemical performance properties:

Excellent UV light, ozone and salt water resistance, good resistance to commonly used chemicals (cleaners and solvents, weak acids and bases, fuels, oils), resistance to fungus and rot (Rating 1 according to ISO 846 Method A). The heat shrink tubes do not contain any asbestos, azoic compounds, formaldehydes or silicone. The heat shrink tubes are self-extinguishing according to UL 224 VW-1. No dioxin is released during incineration. The products are non-corrosive (compatible with copper) and compatible with all commonly used materials for cable insulation, such as plastic, rubber, lead, steel, aluminium, silicone, etc.

Significant electrical performance properties:

Dielectric strength 17 kV/mm (green-yellow design 15 kV/mm), specific electrical resistance 1 × 1015 Ω/cm (yellow-green design 1 × 1014 Ω/cm),

Further detailed mechanical, chemical and electrical product data, as well as an overview of the approvals and certifications from various test institutes, can be obtained on request in the form of our Technical Data Sheets.

Detailed dimensions of the individual types and sizes of the CIMCO heat shrink tube range can be found on page 299.

Working instructions:

- If necessary, cut the heat shrink tube to the desired length, taking care to ensure a smooth cut edge.
- Only undertake shrinking on clean surfaces, as free of dust and grease as possible.
- Begin the shrinking process, starting at one end of the tube.
- Shrinking temperature from +70 °C to +115 °C.
- Ideally, work with a special hot-air blower, heating furnace or infrared lamp.

Thin-walled, black heat shrink tube, shrinkage ratio 2 : 1

Halogen-free, thin-walled, flexible standard electrical heat shrink tube with shrinkage ratio 2 : 1 (shrinking capability down to half the specified internal diameter before heat shrinking). Highly suitable for electrical insulation, as bend- and abrasion protection, as damp protection for seals, for bundling, for strain relief and for marking in electronics and electrical engineering, telecommunications, cable assembly, in the automotive industry and many other areas. Supplied on dispenser rolls, stable, environmentally friendly cardboard rolls, diameter approx. 300 mm - 550 mm (depending on size of heat shrink tube), core diameter approx. 30 mm, for industrial use in particular.

Nominal-ø		Shrink range	Length		
BEFORE shrinking					
inch	mm	mm	m		
3/64	1.1	0.5 - 11.0	200	1 Roll	18 4002
1/16	1.5	0.65 - 1.5	200	1 Roll	18 4004
3/32	2.5	1.0 - 2.5	200	1 Roll	18 4006
1/8	3.5	1.5 - 3.5	200	1 Roll	18 4008
3/16	5.0	2.3 - 5.0	100	1 Roll	18 4010
1/4	6.5	3.0 - 6.5	100	1 Roll	18 4012
3/8	9.5	4.5 - 9.5	100	1 Roll	18 4014
1/2	12.5	6.0 - 12.5	100	1 Roll	18 4016
3/4	19.0	9.0 - 19.0	100	1 Roll	18 4018
1	26.0	12.5 - 26.0	50	1 Roll	18 4020
1 1/2	41.5	20.0 - 41.5	50	1 Roll	18 4022
2	50.0	25.0 - 50.0	25	1 Roll	18 4024
3	80.0	41.0 - 80.0	25	1 Roll	18 4026
4	100.0	51.0 - 100.0	25	1 Roll	18 4028



In handy dispensing boxes for trade and industry use, practical transport and storage boxes made from coated cardboard, for convenient and dust-free storage even after the package has been opened and easy and orderly unrolling and cutting off, ideal for workshops and mobile use.

Nominal-ø		Shrink range mm	Length m		
BEFORE shrinking inch	mm				
1/16	1.5	0.65 to 1.5	20	1	18 1318
3/32	2.5	1.0 to 2.5	15	1	18 1319
1/8	3.5	1.5 to 3.5	15	1	18 1327
3/16	5.0	2.3 to 5.0	12	1	18 1303
1/4	6.5	3.0 to 6.5	12	1	18 1305
3/8	9.5	4.5 to 9.5	8	1	18 1307
1/2	12.5	6.0 to 12.5	5	1	18 1311
3/4	19.0	9.0 to 19.0	5	1	18 1313
1	26.0	12.5 to 26.0	5	1	18 1317



In small package, suitable for trade use, containing 1 piece heat shrink tube 1 metre in length.

Nominal-ø		Shrink range mm	Length m		
BEFORE shrinking inch	mm				
3/16	5.0	2.3 to 5.0	1	1	18 1330
1/4	6.5	3.0 to 6.5	1	1	18 1331
3/8	9.5	4.5 to 9.5	1	1	18 1332
1/2	12.5	6.0 to 12.5	1	1	18 1333
3/4	19.0	9.0 to 19.0	1	1	18 1334
1	26.0	12.5 to 26.0	1	1	18 1335

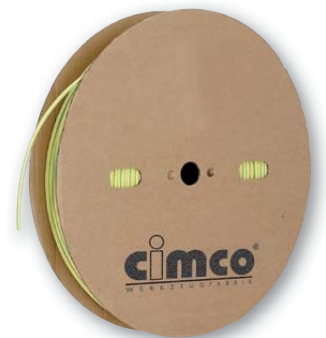


Thin-walled green-yellow heat shrink tube, shrinkage ratio 2 : 1

Two-coloured, lengthwise striped, thin-walled, flexible electrical heat shrink tube with shrinkage ratio 2 : 1 (shrinking capacity down to half the specified internal diameter before heat shrinking). Highly suitable for electrical insulation, as bend- and abrasion protection, as damp protection for seals, for bundling, for strain relief and for marking in electronics and electrical engineering, telecommunications, cable assembly, in the automotive industry and many other areas, ideal marking grounding conductors.

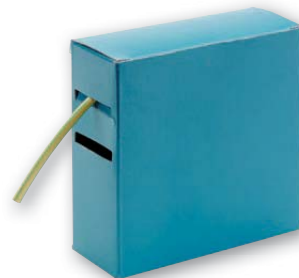
Supplied on dispenser rolls, stable, environmentally friendly cardboard rolls, diameter approx. 300 mm - 550 mm (depending on size of heat shrink tube), core diameter approx. 30 mm, for industrial use in particular.

Nominal-ø		Shrink range mm	Length m		
BEFORE shrinking inch	mm				
3/32	2.5	1.0 to 2.5	200	1 Roll	18 4106
1/8	3.5	1.5 to 3.5	200	1 Roll	18 4108
3/16	5.0	2.3 to 5.0	100	1 Roll	18 4110
1/4	6.5	3.0 to 6.5	100	1 Roll	18 4112
3/8	9.5	4.5 to 9.5	100	1 Roll	18 4114
1/2	12.5	6.0 to 12.5	100	1 Roll	18 4116
3/4	19.0	9.0 to 19.0	100	1 Roll	18 4118
1	26.0	12.5 to 26.0	50	1 Roll	18 4120
1 1/2	41.5	20.0 to 41.5	50	1 Roll	18 4122
2	51.0	25.0 to 51.0	25	1 Roll	18 4124
3	80.0	40.0 to 80.0	25	1 Roll	18 4126
4	100.0	50.0 to 100.0	25	1 Roll	18 4128



In handy dispensing boxes for trade and industry use, practical transport and storage boxes made from coated cardboard, for convenient and dust-free storage even after the package has been opened and easy and orderly unrolling and cutting off, ideal for workshops and mobile use.

Nominal-ø		Shrink range	Length		
BEFORE shrinking					
inch	mm	mm	m		
3/32	2.5	1.0 to 2.5	15	1	18 4136
1/8	3.5	1.5 to 3.5	15	1	18 4138
3/16	5.0	2.3 to 5.0	12	1	18 4140
1/4	6.5	3.0 to 6.5	12	1	18 4142
3/8	9.5	4.5 to 9.5	8	1	18 4144
1/2	12.5	6.0 to 12.5	8	1	18 4146
3/4	19.0	9.0 to 19.0	5	1	18 4148
1	26.0	12.5 to 26.0	5	1	18 4150



Medium-walled black heat shrink tube,

Shrinkage ratio 3 : 1

Halogen-free, medium-walled yet flexible standard electrical shrink tube with shrinkage ratio 3 : 1 (shrinkage capacity down to a third of the given internal diameter before heat shrinking). Highly suitable for electrical insulation, as bend and abrasion protection, as damp protection for seals, for bundling, for strain relief and for identification in electronics and electrical engineering, telecommunications, cable assembly, in the automotive industry and many other areas. Thanks to the shrinkage ratio of 3 : 1, particularly suitable for compensating large differences in diameter of the object to be shrink-wrapped, e.g. markedly contoured parts such as connection sleeves, plugs and switches, as well as for covering a wide range of applications with just a few heat shrink tube sizes, without adhesive lining.

Supplied on dispenser rolls, stable, environmentally friendly cardboard rolls, diameter approx. 300 mm - 550 mm (depending on size of heat shrink tube), core diameter approx. 30 mm, for industrial use in particular.



Nominal-ø		Shrink range	Length		
BEFORE shrinking					
inch	mm	mm	m		
1/16	1.5	0.5 to 1.5	200	1 Roll	18 4204
1/8	3.0	1.0 to 3.0	200	1 Roll	18 4206
1/4	6.0	2.0 to 6.0	100	1 Roll	18 4208
3/8	9.0	3.0 to 9.0	50	1 Roll	18 4210
1/2	12.0	4.0 to 12.0	50	1 Roll	18 4212
3/4	18.0	6.0 to 18.0	50	1 Roll	18 4214
1	24.0	8.0 to 24.0	25	1 Roll	18 4216

Heat shrink tube in 1 metre sections

1 1/2	39.0	13 to 39	1	1	18 4218
2	50.0	16 to 50	1	1	18 4220
3	80.0	26 to 80	1	1	18 4222
4	100.0	33 to 100	1	1	18 4224



In handy dispensing boxes for trade and industry use, practical transport and storage boxes made from coated cardboard, for convenient and dust-free storage even after the package has been opened and easy and orderly unrolling and cutting off, ideal for workshops and mobile use.

Nominal-ø		Shrink range	Length		
BEFORE shrinking					
inch	mm	mm	m		
1/16	1.5	0.5 to 1.5	17	1	18 4234
1/8	3.0	1.0 to 3.0	15	1	18 4236
1/4	6.0	2.0 to 6.0	5	1	18 4238
3/8	9.0	3.0 to 9.0	8	1	18 4240
1/2	12.0	4.0 to 12.0	6	1	18 4242
3/4	18.0	6.0 to 18.0	4	1	18 4244
1	24.0	8.0 to 24.0	3	1	18 4246



Medium-walled black heat shrink tube,

Shrinking ratio 3 : 1, with internal adhesive

Halogen-free, medium-walled, yet very flexible standard electrical heat shrink tube with shrinkage ratio 3 : 1 (shrinking capacity down to a third of the specified internal diameter before heat shrinking). Thanks to outstanding mechanical stability and chemical resistance, this tube is highly suitable for electrical insulation, as bend and abrasion protection, as damp protection for seals, for bundling, for strain relief and for marking in electronics and electrical engineering, telecommunications, cable assembly, in the automotive industry and many other areas. Thanks to the shrinkage ratio of 3 : 1, particularly suitable for compensating large differences in diameter of the object to be shrink-wrapped, e.g. markedly contoured parts such as connection sleeves, plugs and switches, as well as for covering a wide range of applications with just a few heat shrink tube sizes. Excellent sealing properties thanks to the inner lining of special hot melt adhesive, providing outstanding protection against water and moisture penetration. The melting temperature of the hot melt adhesive is approx. +70 °C to +80 °C.

Supplied on dispenser rolls, stable, environmentally friendly cardboard rolls, diameter approx. 300 mm - 550 mm (depending on size of heat shrink tube), core diameter approx. 30 mm, for industrial use in particular.

Nominal-ø		Shrink range mm	Length m		
BEFORE shrinking inch	mm				
1/8	3.2	1.0 to 3.2	200	1 Roll	18 4306
1/4	6.4	2.2 to 6.4	100	1 Roll	18 4308

Heat shrink tube in 1.22 metre sections

3/8	9.5	3.2 to 9.5	1.22	1	18 4310
1/2	12.7	4.2 to 12.7	1.22	1	18 4312
3/4	19.1	6.3 to 19.1	1.22	1	18 4314
1	25.4	8.5 to 25.4	1.22	1	18 4316
1 1/2	39.0	13.5 to 39.0	1.22	1	18 4318
2	50.0	17.0 to 50.0	1.22	1	18 4320



Hot air blower range

Robust and reliable device "Made in Germany" for all standard applications with hot air up to max. 500 °C, e.g. thawing water pipes, heat shrinking, drying and removing paint, plastic forming, soft-soldering, etc.

With 2 heat settings: Setting 1 up to 300 °C and 240 Litres/min. air volume, Setting 2 up to 500 °C and 500 Litres/min. air volume, wattage 1600 W, 230 - 240 Volt, 50 Hz, with strong rubber connecting cable, double overheating protection, suitable for manual and stand operation. Weight 700 g

Supply includes 2 push-on nozzles: wide angle nozzle (for all-round even heat for soft-soldering thin copper pipes, for heat shrinking heat shrink tubes and for forming PVC tubes), soldering reflector nozzle (for simultaneous soldering and shrinking of soldering sleeves).

240 x 200 mm	1	18 1351
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Feed-through- and bend-protection grommets made from soft PVC

Softened PVC is one of the first plastics to find a use in technical applications. Thanks to its thermoplastic properties, soft PVC can be processed both by injection moulding and extrusion. Depending on the formula of the blend, its consistency can be from semi-hard to rubber-like.

Soft PVC is distinguished by the following features:

- Resistant to heat up to +90 °C short-term, up to +70/75 °C long-term
- Resistant to cold down to -25 °C to -30 °C
- Resistant to water, ozone, weathering, diluted acids, alkalis and salts
- Very good resistance to ageing
- Medium resistance to: aromas, ketones, mineral oil, petrol, esters (swelling)
- Very good electrical insulating properties
- Large range of colours, lightfast settings
- Glass clear or coloured-transparent possible

The mouldings have a perfect surface and are dimensionally precise.

Feed-through grommets with through hole

Made from black soft PVC 9542

Service temperatures: -30 °C to +70 °C

Hardness Shore A: 55 +/- 5

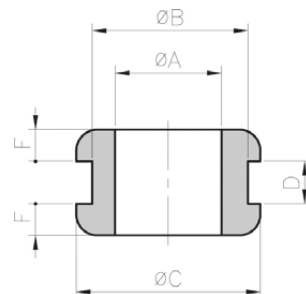
Tensile strength: 8 MPa

Elongation at break: > 250%

Dielectric strength: > 20 kV/mm

Properties: HB UL94

ø A	ø B	ø C	D	F	PG-dimension		metric
mm	mm	mm	mm	mm			
4	8	11	1.5	2.0		100	18 4800
5	8	11	1.5	2.0		100	18 4802
6	9	12	1.0	2.0		100	18 4804
6	9	12	4.0	2.0		100	18 4806
6	9	12	2.0	2.0		100	18 4808
6	9	12	1.5	2.0		100	18 4810
7	10	14	1.5	2.5		100	18 4812
8	10	14	1.5	2.5		100	18 4814
8	12	16	1.5	2.5	7	12	100 18 4816
9	12	16	1.5	2.5	7	12	100 18 4818
10	12	16	2.0	2.5	7	12	100 18 4820
10	18	22	1.0	2.5	11		100 18 4822
10	18	22	4.0	2.5	11		100 18 4824
12	18	22	1.0	2.5	11		100 18 4826
14	22	27	1.0	3.0	16		100 18 4828
16	22	27	1.0	3.0	16		100 18 4830
18	22	27	1.0	3.0	16		100 18 4832



Feed-through grommet with elongated hole

Made from grey soft PVC

Service temperatures: -30 °C to +70 °C

Hardness Shore A: 55 +/- 5

Tensile strength: 8 MPa

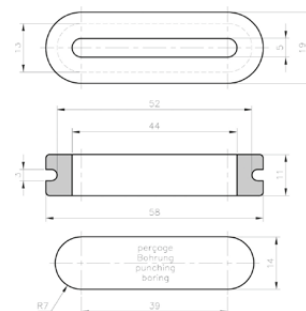
Elongation at break: > 250%

Dielectric strength: > 20 kV/mm

Properties: HB UL94

Application: for the protection of flat cables

L mm	W mm	H mm		
52.0	13.0	11.0	100	18 4834





Kink protection grommets

Made from black soft PVC

Service temperatures: -30 °C to +70 °C

Hardness Shore A: 55 +/- 5

Tensile strength: 8 MPa

Elongation at break: > 250%

Dielectric strength: > 20 kV/mm

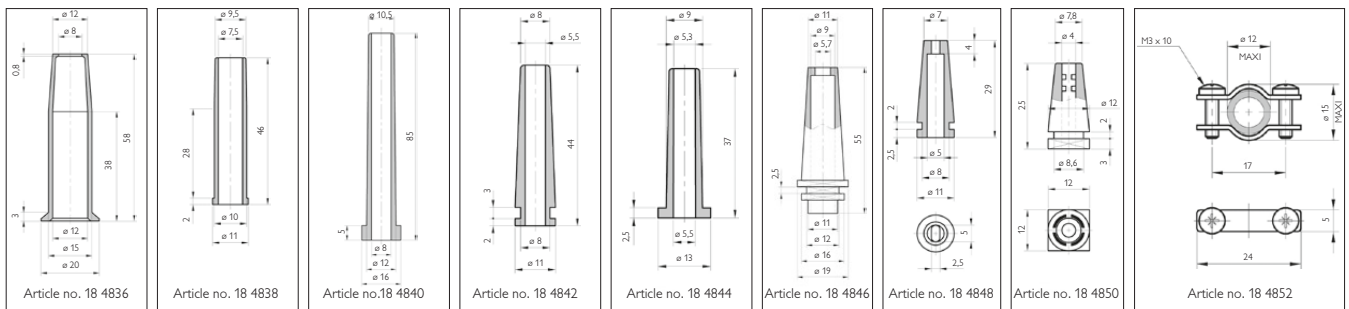
Properties: HB UL94

Application: for the protection of flat cables



PG-dimension

	100	18 4836
	100	18 4838
7	100	18 4840
	100	18 4842
	100	18 4844
7	100	18 4846
	100	18 4848
	100	18 4850
	100	18 4852



Membrane feed-through grommets

Made from black soft PVC

Service temperatures: -30 °C to +70 °C

Hardness Shore A: 55 +/- 5

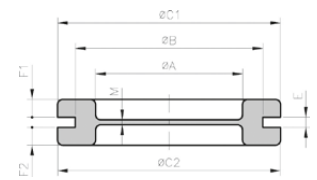
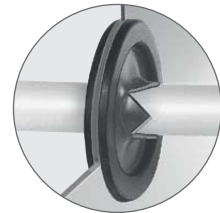
Tensile strength: 8 MPa

Elongation at break: > 250%

Dielectric strength: > 20 kV/mm

Properties: HB UL94

Application: for closing cable outlets; they allow the feeding of cables and wires through their membrane and ensure a good seal against dust.



ø A	ø B	ø C1	ø C2	E	F1	F2	M	PG dimension		
mm	mm	mm	mm	mm	mm	mm	mm	mm		
9.0	15.0	20.0	18.0	2.0	2.5	2.5	1.0	9	100	18 4854
11.0	18.0	22.5	21.5	2.0	2.5	2.5	1.0	11	100	18 4856
13.5	20.0	24.0	24.0	2.0	2.5	2.5	1.0	13.5	100	18 4858
16.0	22.0	27.5	26.0	2.0	2.7	2.7	1.0	16	100	18 4860
21.0	28.0	34.5	34.5	2.0	3.0	3.0	1.0	21	100	18 4862
21.0	28.0	34.5	34.5	1.0	4.0	3.0	1.2	21	100	18 4864
29.0	36.5	43.0	43.0	2.2	3.7	3.7	1.5	29	50	18 4866
35.0	46.0	52.5	52.5	2.5	3.8	3.8	1.3	36	50	18 4868
46.5	59.0	66.2	66.2	2.5	4.0	4.0	1.6	48	50	18 4870

ø A	ø B	ø C1	ø C2	E	F1	F2	M	metric dimension		
mm	mm	mm	mm	mm	mm	mm	mm	mm		
9.0	16.0	20.0	20.0	2.0	2.5	2.5	1.0	M16	100	18 4874
13.5	20.0	25.0	25.0	2.0	2.5	2.5	1.0	M20	100	18 4876
18.5	25.0	30.5	30.5	2.0	2.5	2.5	1.0	M25	100	18 4878
25.0	32.0	39.0	39.0	2.0	3.0	3.0	1.0	M32	100	18 4880
31.0	40.0	47.0	47.0	2.5	3.8	3.8	1.0	M40	50	18 4882
39.0	50.0	57.0	57.0	2.5	3.8	3.8	1.0	M50	50	18 4884
53.0	63.5	75.0	75.0	2.5	3.8	3.8	1.0	M63	50	18 4886

