

CAT ALGO

2024



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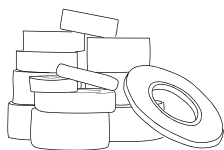
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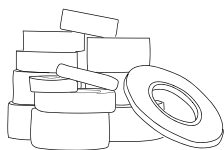
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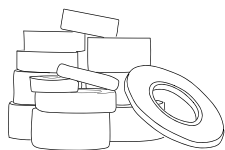
Tapes





Product name	AT7	AT9
General description 	<p>A lead free PVC Electrical Insulation tape coated with cross-linked solvent based rubber resin adhesive.</p> <ul style="list-style-type: none"> - Flame retardant - Self-extinguishing - Easy tear - Flexible - Conformable to awkward shapes - Water resistant - Good abrasion resistance - UV resistant - Non-corrosive adhesive 	<p>A PVC tape coated with a non-staining transparent, aggressive and cross-linked solvent based rubber – resin adhesive.</p> <ul style="list-style-type: none"> - Flame retardant - Self-extinguishing - Flexible - Conformable to awkward shapes - Water resistant - Good abrasion resistance - UV resistant - Non-corrosive adhesive - Easy unwind - High level of adhesion
Specifications	<p>Certification* to the following standards may be available on request. BS EN 60454-3-1/Type 2 (Formerly BS 3924) and BS 4J10: 1991.</p> <p>*Standard charge for certificate: £25.00</p>	<p>Certification* to the standard below may be available on request. BS EN 60454-3-1/Type 2 (Formerly BS 3924).</p>
Technical data 	<p>Thickness: 0.13mm</p> <p>Breaking Load: 26 N/cm</p> <p>Elongation: 180%</p> <p>Adhesion Steel: 2.4 N/cm Self: 2.1 N/cm</p> <p>Water Extract: pH 6.8</p> <p>Conductivity Max: 2mS/m</p> <p>Electrical Properties B/down Voltage: 8.0 kV 1 Min Proof Test: 6.0 kV Insulation Resistance: 10¹¹ Ohms Cu Corrosion: No Staining</p> <p>Flame Retardancy: Self extinguishing</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +70°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.13mm</p> <p>Breaking Load: 26 N/cm</p> <p>Elongation: 180%</p> <p>Adhesion Steel: 2.5 N/cm Self: 2.3 N/cm</p> <p>Water Extract: pH: 6.8 Conductivity: Max. 1.5 mS/m</p> <p>Flame Retardancy: Self extinguishing</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: 0°C to +70°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p> <p>*Standard charge for certificate: £25.00</p>



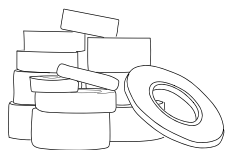
Tapes



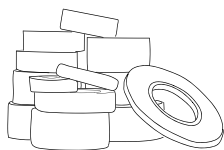
Product name	AT8H	AT10
General description 	<p>A heavy duty plasticised PVC film coated with an aggressive cross – linked solvent based rubber – resin adhesive.</p> <ul style="list-style-type: none"> - Excellent conformability, particularly to uneven surfaces - Specially formulated PVC prevents lifting - Flexible - Water resistant - Good abrasion resistance - UV resistant - Non-corrosive adhesive - High level of adhesion - Can be applied by hand or machine - Can be walked on immediately after application - Suitable for indoor and outdoor use 	<p>Heavy duty PVC film coated with an anti-corrosive, aggressive cross – linked solvent based rubber – resin adhesive.</p> <ul style="list-style-type: none"> - Flame retardant - Self-extinguishing - Flexible - Conformable to awkward shapes - Water resistant - High abrasion resistance - UV resistant - Non-corrosive adhesive - Heavy duty
Specifications	-	Certification* to the following standards may be available on request. BS EN 60454-3-1/Type 2 (Formerly BS 3924).
Technical data 	<p>Tape Thickness: 0.14mm</p> <p>Breaking Load: 26 N/cm</p> <p>Elongation at Break: 150%</p> <p>Adhesion Steel: 3.5 N/cm Self: 2.5 N/cm</p> <p>Water Extract: pH: 6.0 to 8.0 Conductivity: Max. 2.5 mS/m</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: 0°C to +60°C</p> <p>Application Temperature: +5°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.25mm</p> <p>Breaking Load: 44 N/cm</p> <p>Elongation: 220%</p> <p>Adhesion Steel: 3.3 N/cm Self: 3.0 N/cm</p> <p>Moisture Vapour Permeability: 40g/m2/24 hrs</p> <p>Water Extract: pH: 6.0 to 8.0 Conductivity: Max. 2.5 mS/m Breakdown Voltage: 10 kV</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +80°C</p> <p>Application Temperature: +5°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>

*Standard charge for certificate: £25.00

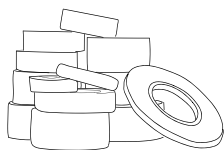
Tapes





Product name	AT30	AT42
<p>General description</p> <p>A polyethylene film coated with a clear, stable, solvent based rubber – resin adhesive.</p> <ul style="list-style-type: none"> - Good low temperature performance - Easy unwind - Flexible - Conformable to awkward shapes - Water resistant - Good abrasion resistance - Non-corrosive adhesive <p>Specifications</p> <p>Certification* to the following standards may be available on request. DEF STAN 81-145/1 (formerly DEF STAN 75-1).</p> <p>Technical data</p> <p>Thickness: 0.15mm</p> <p>Breaking Load: 16 N/cm</p> <p>Elongation at Break: 300%</p> <p>Adhesion</p> <p>Steel: 3.5 N/cm</p> <p>Self: 2.2 N/cm</p> <p>Moisture Vapour Permeability: 3g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -40°C to +90°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>A PVC film coated with a clear, aggressive, cross – linked solvent based rubber – resin adhesive.</p> <ul style="list-style-type: none"> - Easy unwind - Flexible - Water resistant - Good abrasion resistance - Non-corrosive adhesive - Good instant stick <p>Technical data</p> <p>Thickness: 0.11 mm</p> <p>Breaking Load: 19 N/cm</p> <p>Elongation: 170%</p> <p>Adhesion</p> <p>Steel: 1.6 N/cm</p> <p>Self: 1.0 N/cm</p> <p>Unwind Adhesion: 2.0 N/cm</p> <p>Moisture Vapour Permeability: 25g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +50°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Technical data</p> <p>Thickness: 0.11 mm</p> <p>Breaking Load: 19 N/cm</p> <p>Elongation: 170%</p> <p>Adhesion</p> <p>Steel: 1.6 N/cm</p> <p>Self: 1.0 N/cm</p> <p>Unwind Adhesion: 2.0 N/cm</p> <p>Moisture Vapour Permeability: 25g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +50°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>

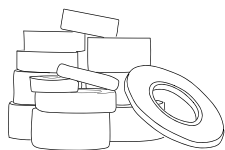




Tapes



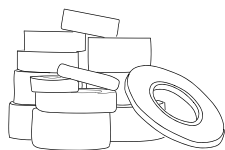
Product name	AT132	AT175
General description 	<p>A polycloth laminate waterproof gloss cloth tape coated with an aggressive pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Very high tack, instant grab - Easy tear - Consistent unwind - Good abrasion resistance - Water resistant finish - Conformable to awkward shapes - Non-corrosive adhesive 	<p>A close woven black rayon uncoated cloth coated with a transparent aggressive, pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - High tack - Very strong - Can be written on - Conformable to awkward shapes - Good abrasion resistance - Very good level of adhesion
Technical data 	<p>Thickness: 0.17 mm</p> <p>Breaking Load: 35 N/cm</p> <p>Elongation: 18%</p> <p>Adhesion Steel: 4.0 N/cm Self: 3.0 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +65°C</p> <p>Application Temperature: +5°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.17 mm</p> <p>Breaking Load: 35 N/cm</p> <p>Elongation: 18%</p> <p>Adhesion Steel: 4.0 N/cm Self: 3.0 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +65°C</p> <p>Application Temperature: +5°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>



Tapes



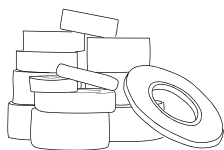
Product name	AT180	AT159
General description 	<p>A polythene extruded gloss cloth tape coated with an aggressive, pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Very long term outdoor exposure - Strong - Conformable to awkward shapes - Very good abrasion resistance - Water resistant finish - High tack - Clean peel - Can be written on - Non-corrosive adhesive - Wide colour range 	<p>A polythene extruded, matt cloth tape coated with an aggressive, pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Easy tear and very easy unwind - Conformable to awkward shapes - Strong - Water resistant finish - Good abrasion resistance - Non-corrosive adhesive - Aggressive adhesive - Can be written on - Wide colour range
Specifications	Certification* to the following standard may be available on request. DEF STAN 81-145 2a.	-
Technical data 	<p>Thickness: 0.28 mm</p> <p>Breaking Load: 65 N/cm</p> <p>Elongation: 30%</p> <p>Adhesion Steel: 4.5 N/cm Self: 3.0 N/cm</p> <p>Moisture Vapour Permeability: 20g/m2/24 hrs</p> <p>Water Extract: pH: 6.0 to 8.0 Chloride Max: 0.04% as NaCl Sulphate Max: 0.20% as Na2SO4</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +80°C</p> <p>Application Temperature: +10°C to +45°C</p>	<p>Thickness: 0.28mm</p> <p>Breaking Load: 46 N/cm</p> <p>Elongation: 16%</p> <p>Adhesion Steel: 4.0 N/cm Self: 2.4 N/cm</p> <p>Moisture Vapour Permeability: 20g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +80°C</p> <p>Application Temperature: +10°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>



Tapes


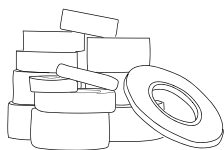


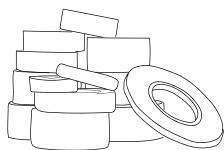
Product name	AT160	AT163
General description 	<p>A polythene extruded matt cloth tape with a waterproof finish coated with an aggressive pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Very strong - Easy tear and unwind - Conformable to awkward shapes - Water resistant finish - Good abrasion resistance - Non-corrosive adhesive - Can be written on - Wide colour range 	<p>A polythene extruded gloss cloth tape coated with a thermosetting pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Thermosetting adhesive - Good high and low temperature resistance - Salt water resistant - Water resistant finish - Strong - Good abrasion resistance - Conformable to awkward shapes - High tack - Can be written on - Non-corrosive adhesive
Specifications	Certification* to the following standard may be available on request. DEF STAN 81-145 2a	-
Technical data 	<p>Thickness: 0.33 mm</p> <p>Breaking Load: 85 N/cm</p> <p>Elongation: 8%</p> <p>Adhesion Steel: 3.5 N/cm Self: 2.2 N/cm</p> <p>Moisture Vapour Permeability: 35g/m2/24 hrs</p> <p>Water Extract: pH: 6.5 to 7.5 Chloride Max: 0.05% as NaCl Sulphate Max: 0.25% as Na2SO4</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +80°C</p> <p>Application Temperature: +10°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.30mm</p> <p>Breaking Load: 70 N/cm</p> <p>Elongation: 30%</p> <p>Adhesion Steel: 7.4 N/cm Self: 3.2 N/cm</p> <p>Moisture Vapour Permeability: 25g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +110°C</p> <p>Application Temperature: +5°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>

Tapes

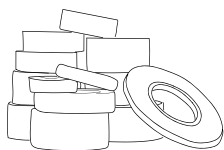




Product name	AT171	AT200
General description 	<p>A gloss polycloth laminate tape coated with an aggressive pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Easy tear and unwind - Very high initial tack - Good abrasion resistance - Water resistant finish - Conformable to awkward shapes - Non-corrosive adhesive 	<p>An Ultra Matt polythene extruded cloth tape coated with cable friendly, solvent free rubber-resin adhesive that is designed to peel from clean surfaces.</p> <ul style="list-style-type: none"> - Ultra matt finish - Flame retardant in situ - Cable friendly clean peel adhesive - Easy unwind very easy tear - Wide colour range - Can be written on - Wide temperature range - Water resistant in situ - Good abrasion resistance - Conformable to awkward shapes - Non corrosive adhesive
Technical data 	<p>Thickness: 0.18 mm</p> <p>Breaking Load: 30 N/cm</p> <p>Elongation: 15%</p> <p>Adhesion Steel: 3.7 N/cm Self: 2.3 N/cm</p> <p>Moisture Vapour Permeability: 25g/m2/24 hrs</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +65°C</p> <p>Application Temperature: +10°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.26mm</p> <p>Breaking Load: 40 N/cm</p> <p>Elongation: 20%</p> <p>Adhesion Steel: 4.5 N/cm Self: 2.6 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -10°C to +80°C</p> <p>Application Temperature: +10°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>



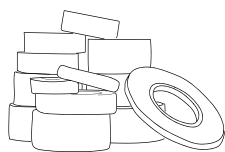




Tapes



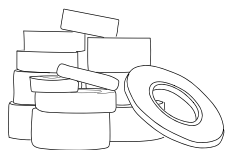
Product name	AT502	AT566
General description 	<p>A 30 micron aluminium foil, coated one side with a dispersion acrylic, pressure sensitive adhesive. The tape is backed with a strong polythene coated release paper.</p> <ul style="list-style-type: none"> - Flame retardant and self-extinguishing - Good high and low temperature resistance - Easy unwind and tear - Water resistant - Aggressive adhesive - Excellent water vapour resistance 	<p>A polythene extruded gloss cloth tape coated with an aggressive, pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Very high resistance to outdoor exposure - Strong - Very good abrasion and puncture resistance - Water resistant finish - Conformable to awkward shapes - High tack - Clean peel - Can be written on - Non-corrosive adhesive
Specifications	<p>Test certificate* available to show this foil tape meets the requirements of the following specifications:</p> <ul style="list-style-type: none"> - BS476 Part 6 and Part 7 Category 1 - Fire Class M1 - Class O 	-
Technical data 	<p>Thickness: 0.07 mm</p> <p>Elongation: 5%</p> <p>Adhesion to Steel Faced Side: 3.6 N/cm Unfaced Side: 3.6 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -40°C to +110°C</p> <p>Application Temperature: -20°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 0.28 mm</p> <p>Breaking Load: 65 N/cm</p> <p>Elongation: 30%</p> <p>Adhesion Steel: 4.5 N/cm Self: 3.0 N/cm</p> <p>Moisture Vapour Permeability: 20g/m2/24 hours</p> <p>Water Extract: pH: 6.5 to 7.5 Chloride Max: 0.04% as NaCl Sulphate Max: 0.20% as Na2SO4</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -50°C to +80°C</p> <p>Application Temperature: +10°C to +45°C</p> <p>Storage Temperature: +12°C to +25°C</p>



Tapes



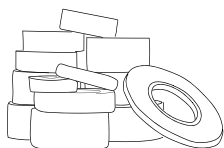
Product name	AT712	AT713
General description 	<p>A polythene extruded cloth tape coated with an aggressive, white pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Low halogen content - Very easy tear - Can be written on - Clean peel - pH neutral - Water resistant finish - Good abrasion resistance - Conformable to awkward shapes - Non-corrosive adhesive 	<p>A polythene extruded matt cloth tape coated with an aggressive, white pressure sensitive, solvent free rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Matt finish - Easy tear - Conformable to awkward shapes - Strong - Water resistant finish - Good abrasion resistance - Non-corrosive adhesive - Clean peel - Can be written on - Low halogen content
Specifications	<p>Certification* to the following standards may be available on request.</p> <ul style="list-style-type: none"> • NNC approved (White only). • EDF PMUC approved (White only). • Fire Class M1 	-
Technical data 	<p>Tape Thickness: 0.27 mm</p> <p>Breaking Load: 41 N/cm</p> <p>Elongation at Break: 18%</p> <p>Adhesion Steel: 6.0 N/cm Self: 3.5 N/cm</p> <p>Moisture Vapour Permeability: 24g/m2/24 hours</p> <p>Total Halides: 1000ppm max</p> <p>Total Sulphur: 1000ppm max</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +70°C</p> <p>Application Temperature: 0°C to +70°C</p> <p>Storage Temperature: +12°C to +25°C</p> <p>*Standard charge for certificate: £25.00</p>	<p>Tape Thickness: 0.27 mm</p> <p>Breaking Load: 41 N/cm</p> <p>Elongation at Break: 18%</p> <p>Adhesion Steel: 6.0 N/cm Self: 3.5 N/cm</p> <p>Moisture Vapour Permeability: 24g/m2/24 hours</p> <p>Total Halides: 1000ppm max</p> <p>Total Sulphur: 1000ppm max</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +70°C</p> <p>Application Temperature: 0°C to +70°C</p> <p>Storage Temperature: +12°C to +25°C</p>

Tapes



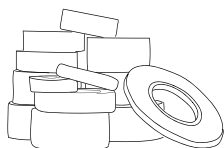
Product name	AT1005	AT2000
General description 	<p>General Description</p> <p>A 28 micron polypropylene film coated with dispersion acrylic adhesive.</p> <ul style="list-style-type: none"> - Excellent conformability to awkward shapes - Water resistant - Good abrasion resistance - Suitable for machine or hand applications 	<p>An aluminium oxide/silicon carbide abrasive grit bonded to a tough and durable PVC backing with a solvent based acrylic adhesive and paper release liner.</p> <ul style="list-style-type: none"> - Anti slip - Water resistant - UV resistant - Easily applied - Helps you meet statutory Health and Safety regulations - Durable - For indoor and outdoor use
Technical data 	<p>Thickness: 0.054 mm</p> <p>Film Thickness: 0.03 mm</p> <p>Elongation: 110%</p> <p>Adhesion: 2.6 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -25°C to +70°C</p> <p>Application Temperature: +10°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>	<p>Thickness: 1.0 mm</p> <p>Breaking Load: 40 N/cm</p> <p>Elongation: 100%</p> <p>Adhesion Steel: 4.0 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +50°C</p> <p>Application Temperature: +15°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>



Tapes



Product name	AT3400	AT4003
General description	<p>A PVC film coated with an aggressive cross – linked solvent based rubber-resin adhesive, which can be applied over a wide temperature range.</p> <ul style="list-style-type: none"> - Flame retardant - Self-extinguishing - Excellent low and high temperature performance - Resistant to rapid temperature change - Easy unwind - Flexible - Conformable to awkward shapes - Water resistant - Good abrasion resistance - UV resistant - Non-corrosive adhesive 	<p>A single-sided woven glass, cloth tape with a silicone adhesive.</p> <ul style="list-style-type: none"> - Extremely high temperature resistance. - High mechanical strength. - Flame retardant to UL 510. - Excellent resistance to acids and oils
Specifications	Certification* to the following standard may be available on request. BS EN 60454-3-1/Type 11 (Formerly BS 3924)	Recognised by UL (Test method UL.510) and conforms to EN 60454-3-8 Type 3*.
Technical data	<p>Tape Thickness: 0.19 mm</p> <p>Breaking Load: 30 N/cm</p> <p>Elongation at Break: 200%</p> <p>Adhesion Steel: 2.2 N/cm Self: 2.0 N/cm</p> <p>Moisture Vapour Permeability: 40g/m2/24 hours</p> <p>Flame Retardancy: Self-extinguishing</p> <p>Breakdown Voltage: 10 kV</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -20°C to +105°C</p> <p>Application Temperature: -10°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p> <p>*Standard charge for certificate: £25.00</p>	<p>Tape Thickness: 0.18 mm</p> <p>Breaking Load: 280 N/cm</p> <p>Elongation at Break: 5%</p> <p>Adhesion to steel: 2.8 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Breakdown Voltage: 2.5 kV</p> <p>Service Temperature: 0°C to +180°C</p> <p>Application Temperature: +10°C to +40°C</p> <p>*Standard charge for certificate: £25.00</p>

Tapes



Product name	AT6000	AT6103
General description 	<p>A PVC tape, coated with a clear, stable, cross - linked solvent based rubber-resin adhesive.</p> <ul style="list-style-type: none"> - Easy Tear - Very easy unwind - Can be unwound from the roll without stretching the tape - Flexible - Conformable to awkward shapes - Water resistant - High performance in adverse weather conditions - UV resistant - Good adhesion to a variety of surfaces including: glass, metal, Polythene, UPVC and wood - Clean peel - Can be used indoors and outdoors 	<p>A clear UV polythene film coated with a dispersion acrylic adhesive.</p> <ul style="list-style-type: none"> - Matt finish - Excellent clarity once applied - Easy tear - Clean peel from most surfaces - UV & water resistant - Easy to apply - Conformable and flexible - Resists most common solvents - Abrasion resistant - Non-corrosive adhesive
Technical data 	<p>Thickness: 0.11 mm</p> <p>Elongation: 120%</p> <p>Adhesion Steel: 2.0 N/cm Self: 0.6 N/cm</p> <p>Unwind Adhesion: 2.0 N/25mm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -5°C to +60°C</p> <p>Application Temperature: +5°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p> <p>*Standard charge for certificate: £25.00</p>	<p>Thickness: 0.11 mm</p> <p>Breaking Load: 25 N/cm</p> <p>Elongation: 300%</p> <p>Adhesion Steel: 1.3 N/cm</p> <p>RoHS Compliant: Yes</p> <p>Service Temperature: -40°C to +60°C</p> <p>Application Temperature: 0°C to +40°C</p> <p>Storage Temperature: +12°C to +25°C</p>

Kits



Product name	Industrial Social Distancing Kit	Retail Social Distancing Kit
Features	<ul style="list-style-type: none"> - Ready to use all in one pack - For an area of approx. 20,000 sq. feet (1850m²) - Possibility to combine kits for larger areas - Vivid colours for clear visual message - Aggressive adhesive for better performance and durability 	<ul style="list-style-type: none"> - Ready to use all in one pack - For premises such as small shops, post offices, garden centres, where purchases are made, usually with only one access point to the premises and less than 10 people on site. - Possibility to combine kits for larger areas - Vivid colours for clear visual message - Aggressive adhesive for better performance and durability
Kit containment	<p>6 x rolls of 50mm x 33m AT8H Hazard Warning Tape yellow/black for marking boxes that could be used for marking out social distancing queues.</p> <p>1xLarge 600mm dia floor graphic "Follow the route, keep 2m apart" sign that could be used to encourage good social distancing behavior at the start of a queuing area.</p> <p>5x300mm dia "Wait here till person moves" floor graphics.</p> <p>2xSheets of Social distance sticker sheets that could be used to encourage safe distancing.</p> <p>3x50mm x 33m rolls of AT8 Lane Marking Tape yellow for marking out paths areas.</p> <p>2x200mm dia One Way Arrow Symbol floor graphics that could be used at the start of one-way paths.</p> <p>2x300mm dia No Pedestrians Symbol floor graphics that could be used at the 'no entry' end of a one-way path.</p> <p>4x100mm dia One Way Arrow Symbol that could be used to mark out smaller one-way paths or to guide staff to the start of a one-way path.</p> <p>3xA4 semi-rigid plastic General Covid measures signs.</p> <p>5xA5 "Please use hand sanitiser before entering" stickers.</p> <p>2xA4 "Minimise face to face contact" signs for use in areas where maintaining a 2m distance is not possible.</p> <p>10xsmall "Disinfect surfaces regularly" stickers.</p> <p>10 x small "Avoid touching unless necessary" stickers. To minimise touch.</p>	<p>2xA4 semi-rigid plastic sign Social distancing measures for retail sign</p> <p>1xA4 semi-rigid plastic sign "Please use hand sanitiser".</p> <p>6x300mm dia. floor graphic "Wait here till the person in front moves".</p> <p>3x50mm x 33m rolls of black/yellow tape for marking queues, boxes etc.</p> <p>1xA4 semi-rigid plastic sign "No more than ____ people in the premises at any one time"</p> <p>1x300mm dia floor graphic "Do not stand in the doorway".</p> <p>2xSheet of 6x 85mm dia. 2m distance symbols 'Maintain Social Distancing' stickers.</p> <p>2x300mm dia floor graphic "Please wait here until called".</p> <p>1x50mm x 33m rolls of yellow tape for marking queues, boxes etc.</p> <p>2xA5 sticker "Use contactless where possible".</p>

Sleeving



Product name	TBA	SI
Description	Braided sleeving in basalt fibre untreated, non-impregnated	Braided sleeving in silica fibre untreated and non-impregnated
Characteristics	<ul style="list-style-type: none"> - Continuous working temperature: from -260°C to 560°C. Peaks at 600°C - Fireproof - Resistance to flame: non flammable - Low heat expansion coefficient - Good flexibility - Very high chemical resistance, especially to acid - Good mechanical resistance - Low rate of moisture absorbtion - Good thermal insulation properties - Low density - Good behaviour with soldering iron: no retraction - Frays slightly when cut - 100% recyclable 	<ul style="list-style-type: none"> - Continuous working temperature: +1050°C. Peaks at +1200°C - Fireproof - Hihgly flexible - Excellent resistance to radiation - Frays slightly when cut - Low heat expansion coefficient - Excellent thermal insulation properties - Low density - Good behaviour with soldering iron: no retraction - Very high chemical resistance, especially to acid
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: 2mm hasta 50 mm - Standard colour: khaki (natural) - Standard packaging: bobbins 	<ul style="list-style-type: none"> - Manufactured diameters: from 1 to 50mm - Color standard: white (natural) - Acondicionamento standard: rolls
Chemical composition	<ul style="list-style-type: none"> - SiO₂, Al₂O₃, MgO, CaO, FeO, Fe₂O₃ - Asbestos free and halogen free guaranteed 	<ul style="list-style-type: none"> - Silicon dioxide (SiO₂ 94-96%) - Asbestos free guaranteed
Applications		

Sleeving



Product name	SCS-E	SEPx2
Description	Expandable glass fibre braided sleeving coated with silicone rubber	Double glass fibre braided sleeving with polyurethane varnish
Characteristics	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: from -60°C to +250°C. Peaks at +290°C (few hours) - Minimum expansion ratio: 1:2 - Dielectric strenght after expansion: 3kV (other voltages on request) - Flammability: self-extinguishing - Good mechanical resitance - Good resistance to UV - Resistant to tranformer oils - Good compatibility with class C impregnation varnishes - Good behaviour with soldering iron - Good behaviour with liquid fuels: no decomposition - Halogen free - Watertight - Very flexible 	<ul style="list-style-type: none"> - Temperature class: F - Continuous working temperature: from -30°C to +155°C. Peaks at +185°C (few hours) - Dielectric strenght: >8kV - Halogen free - Flammability: combustible, but the glass fibre stands - Very good mechanical resitance - Good resistance to hydrocarbons - Resistant to transformer oils - Good compatibility with class F impregnation varnishes - Good behaviour with soldering iron - Good behaviour with liquid fuels: no decomposition - Watertight - Flexible
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60695-2-10 (05-2001) - NF EN 60695-2-11 (07-2001) - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 sheets 400 to 402 (02/2003) - Pass the flame retardant test UL1441/VW-1 (vertical test) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 sheet 409 (12/1999) - Pass the Flame retardant UL test (horizonta test)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 2 to 25mm - Standard colour: brick red - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 2 to 4mm: 200m - diameter 6 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 25mm: 30m 	<ul style="list-style-type: none"> - Manufactured diameters: from 2 to 14mm - Standard colour: light brown - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 2 to 4mm: 200m - diameter 5 to 9mm: 100m - diameter 10 to 14mm: 50m
Applications		

Sleevings

Product name	GES	TUBOTHANE
Description	Extruded silicone tube	Thermoplastic polyurethane extruded sleeving
Characteristics	<ul style="list-style-type: none"> - Continuous working temperature: from -50°C to +200°C - Tearing resistance: 18 to 27N/mm (ASTM D 624 B) - Elongation at break: 350 to 700% (DIN 53504) - Resistance at break: 8 to 12N/mm² (DIN 53504) - Hardness: 40 to 80 SH A (DIN 53504) - Density: 1,12 to 1,22 g/cm³ (EN ISO 1183-1 A) - Not toxic for food products and physiological liquids - Good resistance to: <ul style="list-style-type: none"> - Atmospheric agents - Ozone - Low temperatures: keeps its flexibility - Non-concentrated acids - Bases - Water and sea water - Ethylene oxide: 100% during 3 days at 24°C - Warm air up to 200°C 	<ul style="list-style-type: none"> - Temperature class: F - Continuous working temperature: from -30°C to +155°C. Peaks at +185°C (few hours) - Dielectric strenght: 8 to 15kV (depends on the thickness) - Halogen free - Good behaviour with the following products: <ul style="list-style-type: none"> - mineral oil at 60°C - alcohol 90° - soda at 20% - ethylene glycol - trichlorethylene - white spirit - isopropanol - Good mechanical resistance - Good compatibility with Class F impregnation varnishes - Self-extinguishing - Watertight - Flexible
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN 60684-3 sheets 121 a 124 (12/2003) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: 0,6 to 60mm - Standard colour: transparent - Other colours: availables on request - Standard packaging: rolls (on request: in bobins or cut according to wished size) 	<ul style="list-style-type: none"> - Manufactured diameters: from 0,8 to 10mm - Standard colour: yellow - Other colours: green, blue, red, black, orange, yellow - Standard packaging: bobbins <ul style="list-style-type: none"> - diameter 0,8 to 1,5mm: 300m - diameter 2 to 6mm: 200m - diameter 7 to 10mm: 100m
Applications		

Sleevings

Product name	SCS THT	SCS HT
Description	Fibre glass braid with silicone varnish	Fibre glass braid with silicone varnish
Characteristics	<ul style="list-style-type: none"> - Continuous working temperature: from -60°C to +260°C - Peaks at: <ul style="list-style-type: none"> - 30 min at 800°C - 15 min at 1100°C - 1 min at 1500°C - Good resistance to: <ul style="list-style-type: none"> - presence of flames - projection of metals or melting glass - occasional very high temperature - projection of vapour - Excellent flexibility at low temperatures - Slight swelling can be caused by hydrocarbons - Good resistance to UV - Asbestos free - Fireproof - Watertight - Halogen free 	<ul style="list-style-type: none"> - Continuous working temperature: from -60°C to +260°C - Peaks at: <ul style="list-style-type: none"> - 30 min at 800°C - 15 min at 1100°C - 1 min at 1500°C - Good resistance to: <ul style="list-style-type: none"> - presence of flames - projection of metals or melting glass - occasional very high temperature - projection of vapour - Excellent flexibility at low temperatures - Slight swelling can be caused by hydrocarbons - Good resistance to UV - Asbestos free - Self-extinguishing - Watertight - Halogen free
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - F1 and I2 according to the standards NF F 16-101/16-102 and STM S-001 - HL1, HL2 and HL3 according to the railway standard EN45545 - Answer to the aeronautic norm SAE AS1072 - Allow the harnesses producers to pass the norm SAE AS1055 - NF EN 60695-2-10 (05-2001) - NF EN 60695-2-11 (07-2001) - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 sheets 400 to 402 (02/2003) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - HL1, HL2 and HL3 according to the railway standard EN45545 - Answer to the aeronautic norm SAE AS1072 - NF EN 60695-2-10 (05-2001) - NF EN 60695-2-11 (07-2001) - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 sheets 400 to 402 (02/2003)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 6 to 152mm - Standard colour: brick red - Standard packagings: bobbins and rolls 	<ul style="list-style-type: none"> - Manufactured diameters: from 4 to 50mm - Standard colour: brick red - Standard packagings: bobbins or rolls
Applications		

Sleeving





Product name	PVC	SE
Description	Glass fibre braided sleeving with PVC coating	Glass fibre braided sleeving
Characteristics	<ul style="list-style-type: none"> - Temperature class: B - Continuous working temperature: from -20°C to +130°C. Peaks at +160°C - Dielectric strength: 3kV - Flammability: self-extinguishing - Good mechanical resistance - Resistant to transformer oils - Good compatibility with class B impregnation varnishes - Good behaviour with liquid fuels: no decomposition - Watertight - Very flexible 	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: from -60°C to +450°C. Peaks at +550°C (few hours) - Dielectric strength: from 0.5kV to 1.5kV, depends on the thickness - Flammability: non flammable - Low mechanical resistance - Resistant to transformer oils - Good compatibility with class C impregnation varnishes - Good behaviour with the soldering iron: no retraction - Good behaviour with liquid combustibles: no decomposition - Very flexible - Non watertight
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 406 to 408 (02/2003) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 0,5 to 14mm - Standard colour: yellow - Other colours: green, blue, red, black, orange, white - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 4,5 to 12mm: 100m - diameter 14mm: 50m 	<ul style="list-style-type: none"> - Manufactured diameters: from 0,5 to 200mm - Standard colour: white - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 100mm: 25m - diameter 100 to 200mm: 15m
Applications		

Sleeving





Product name	SVF	13F7 AC UL
Description	Glass fibre braided sleeving with acrylic coating	Glass fibre braided sleeving with acrylic coating
Characteristics	<ul style="list-style-type: none"> - Temperature class: F - Continuous working temperature: from -30°C to +155°C. Peaks at +180°C (few hours) - Dielectric strength: 3kV - Halogen free - Good mechanical resistance - Good compatibility with class F impregnation varnishes - Good behaviour with the soldering iron - Good resistance to fray - Watertight - Very flexible 	<ul style="list-style-type: none"> - Temperature class: F - Continuous working temperature: from -30°C to +155°C. - 60 days at 190°C (according to UL1441) - 7kV minimum average, with no individual value below 5kV (according to UL1441) - Halogen free - Good mechanical resistance - Good compatibility with class F impregnation varnishes - Good behaviour with the soldering iron - Good resistance to fray - Watertight - Very flexible - Good oil resistance at 80°C (according to UL1441) - Pass the horizontal flame test (according to UL 1441)
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 403 to 405 (12/2002) 	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 403 at 405 (12/2002) - Homologation UL1441/CSA C22.2 N°198.3 Grade A, acrylic coated fiberglass sleeving, 155°C, 600 Volts Oil resistance File No: UZFT2/8 - E503429
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 0,5 to 26mm - Standard colour: yellow - Other colours: green, blue, red, black, white - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 5 to 16mm: 100m - diameter 18 to 26mm: 50m 	<ul style="list-style-type: none"> - Manufactured diameters: from 0,5 a 25mm - Standard colour: yellow - Other colours: all colours - Standard packaging: bobbins <ul style="list-style-type: none"> - diameter 0,5 to 4,5mm: 200m - diameter 5 to 14mm: 100m - diameter 16 to 25mm: 50m
Applications		



Sleevings

Product name	SCS	SCS ALU
Description	Glass fibre braided sleeving coated with silicone rubber	Glass fibre braided sleeving coated with an aluminium silicone rubber
Characteristics	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: from -60°C to +250°C. Peaks at +290°C (few hours) - Dielectric strenght: 1.5 to 15kV - Flammability: self-extinguishing - Good mechanical resistance - Good resistance to UV - Resistant to transformer oils - Good compatibility with class C impregnation varnishes - Good behaviour with soldering iron - Good behaviour with liquid fuels: no decomposition - Halogen free - Watertight - Very flexible 	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature : from -60°C to +250°C. Peaks at +290°C (few hours) - Flammability : self-extinguishing - Good mechanical resistance - Good resistance to UV - Resistance to transformer oils - Good compatibility with same class impregnation varnishes - Good behaviour with soldering iron - Good behaviour with liquid combusti- bles : no decomposition - Good resistance to abrasion according to the standard ISO 6722 - Halogen free - Watertight - Very flexible - Fireproof
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS 2011/65/EU - F1 and I2 according to the standards NF F 16-101/16-102 and STM S-001 - HL2/R22-R23 required, according to the railway standard EN45 545 - NF EN 60695-2-10 (05-2001) - NF EN 60695-2-11 (07-2001) - NF EN 60684-1 (10-2003) - NF EN 60684-2 (07-2012) - NF EN (CEI) 60684-3 sheets 400 to 402 (02/2003) 	<ul style="list-style-type: none"> - Compliant with the RoHS directive - Compliant with Reach regulation - Compliant with the requirements of Euro- pean regulations 118R03 - EN (CEI) 60684-3 sheets 400 to 402 (02/2003) - EN 60684-1 (10-2003) - EN 60684-2 (07-2012) - EN 60695-2 -11 (09/2014) - Pass the flame retardant UL test UL1441/ VW1 (vertical test)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 0,5 to 45mm - Other colours: green, blue, red, orange, yellow, white, grey - Standard packaging: rolls <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 4,5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 45mm: 30m 	<ul style="list-style-type: none"> - Manufactured diameters: from 0.5 to 25mm - Standard colour: aluminium - Standard packaging: <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 4,5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 45mm: 30m
Options	The reference SCS can be overbraided with fibre glass or polyester yarn and varnish with a varnish of our range.	-
Applications		


Sleevings

Product name	SEP	SS
Description	Glass fibre braided sleeving with polyurethane varnish	Glass fibre braided sleeving impregnated silicone resin
Characteristics	<ul style="list-style-type: none"> - Temperature class: F - Continuous working temperature: from -30°C to +155°C. Peaks at +185°C (few hours) - Dielectric strength: 3 to 10kV - Hardness of the varnish: 60 Shore A - Halogen free - Flammability: combustible, but the glass fibre stands - Good mechanical resistance - Good resistance to hydrocarbons - Resistance to transformer oils - Good compatibility with same class impregnation varnishes - Good behaviour with soldering iron - Good behaviour with liquid fuels: no decomposition - Watertight - Flexible 	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: from -60°C to +350°C. Peaks at +400°C (few hours) - Dielectric strength: from 0.5kV to 1.5kV depends on the thickness - Flammability: non flammable - Good resistance to UV - Resistance to transformer oils - Good compatibility with same class impregnation varnishes - Good behaviour with soldering iron: no retraction - Good behaviour with liquid fuels: no decomposition - Flexible - No watertight
Standards	<ul style="list-style-type: none"> - Compliant with RoHS directive - Compliant with Reach regulation - EN (CEI) 60684-3 sheets 409 (12/1999) - EN 60684-1 (10/2003) - EN 60684-2 (07-2012) - UL flame retardant test approved (horizontal test) 	<ul style="list-style-type: none"> - Compliant with RoHS directive - Compliant with Reach regulation - EN 60684-1 (10-2003) - EN 60684-2 (07-2012)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: from 0.5 to 40 mm - Standard colour: light brown - Other colours (only up to Ø20 mm): Green, blue, red, black, orange, yellow - Standard packaging: <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 4,5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 40mm: 25m 	<ul style="list-style-type: none"> - Manufactured diameters: from 0.5 to 50 mm - Standard colour: light brown - Standard packaging: <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 50mm: 25m
Applications		

Sleevings

Product name	IS	SHT
Description	Glass fibre braided sleeving with watery varnish impregnated	Glass fibre braided sleeving treated high temperature
Characteristics	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: From -30°C to +250°C. Peaks at +320°C - Dielectric strength: from 0.5kV to 1.5kV, depends on the thickness - Halogen free and without solvent - Resistance to flame: Non flammable - Good resistance to thermal shocks - Resistance to transformer oils - Good compatibility with same class impregnation varnishes - Good behaviour with soldering iron, no retraction - Good behaviour with liquid combustibles: no decomposition - Very flexible 	<ul style="list-style-type: none"> - Temperature class: C - Continuous working temperature: from -60°C to +450°C. Peaks at +550°C (few hours) - Dielectric strength: from 0.5kV to 1.5kV depends on the thickness - Flammability: non-flammable - Low mechanical resistance - Resistant to transformer oils - Good compatibility with same class impregnation varnishes - Good behaviour with soldering iron; no retraction - Good behaviour with liquid combustibles: no decomposition - Very flexible - Non watertight - Heat treated sleeving which does not leave any organic deposit
Standards	<ul style="list-style-type: none"> - Compliant with RoHS directive - Compliant with Reach regulation - EN 60684-1 (10/2003) - EN 60684-2 (07-2012) - Flame retardant test approved UL/VW-1, vertical tes 	<ul style="list-style-type: none"> - Compliant with RoHS directive - Compliant with Reach regulation - EN 60684-3 sheet 300 (02/2003) - EN 60684-1 (10-2003) - EN 60684-2 (07-2012)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: 0.5 to 70 mm - Standard colour: black - Other colours: green, blue, red, orange, yellow, white - Standard packaging: <ul style="list-style-type: none"> - diameter 0,5 to 4mm: 200m - diameter 4,5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 70mm: 30m 	<ul style="list-style-type: none"> - Manufactured diameters: from 0.5 to 70 mm - Standard colour: silver white - Standard packaging: <ul style="list-style-type: none"> - diameter 0,5: 400m - diameter 0,8 to 1,5mm: 300m - diameter 2 to 4,5mm: 200m - diameter 5 to 12mm: 100m - diameter 14 to 20mm: 50m - diameter 22 to 30mm: 25m
Options	ISx2 : Reference IS + Glass fibre overbraided with watery varnish impregnated	-
Applications		

Gaskets

Product names	CT, CTTS
Composition	<ul style="list-style-type: none"> - CT: Glass fibre braided sleeving around glass fibre knitted rope with a core - CTTS: Glass fibre braided sleeving around glass fibre knitted rope with a core coating with silicone rubber
Standards	<ul style="list-style-type: none"> - Compliant with directive RoHS - Compliant with Reach regulation - EN 60695-2 (07-2001) - EN 60695-2 -11 (07-2001)
Colours and packagings	<ul style="list-style-type: none"> - Manufactured diameters: on request - Standard colours: white (CT), black (CTTS) - Other colours (CTTS): green, blue, red, orange, yellow, white, grey - Standard packaging: bobbins
Applications	

CHARACTERISTICS

CHARACTERISTICS	CT	CTTS
Class of temperature	C	C
Minimum temperature	-60°C	-60°C
Maximum temperature	+450°C	+250°C
Peaks at	+550°C	+300°C
Compressibility	-	80 %
Flammability	Unflammable	Self-extinguishing
Mechanical resistance	Good	Good
Flexibility	Good	Good
Resistance to UV	Good	Good
Resistance to soldering iron	Good	Good
Watertight	No	Yes
Resistance to chlorydric and sulphuric acids at 80°C	Good	Good
Resistance to condensates during the combustion of fuel or various gases	Good	Good

Single Wall Polyolefin



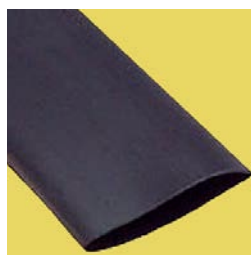
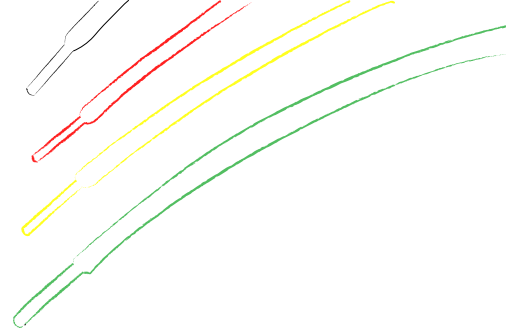
Product name	SUMITUBE™ A	SUMITUBE™ A11
Description	The Sumitube® A is used in a wide commercial range of applications. The Sumitube® A is halogen free.	The Sumitube® A11 is used in a wide commercial range of applications. The Sumitube® A11 is halogen free.
Standards	ASTM, FMVSS 302, JIS C 2133	ASTM, FMVSS 302, JIS C 2133
Operating temperature	-55 to 105°C	-55 to 105°C
Orderable Sizes	1,20 - 76,2mm	2,40 - 27,0mm
Shrink ratio	2:1	2:1
Available colors	Clear	Clear



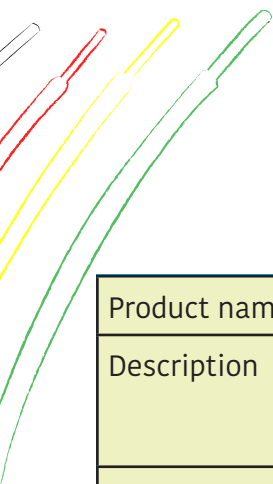
Product name	SUMITUBE™ A2	SUMITUBE™ B11
Description	The Sumitube® A2 is a flexible polyolefin halogen free tubing. Good insulation and chemical properties. SAE-AS and VG certified.	Commercial flame retardant, flexible polyolefin tubing. Versatile and suitable for a wide range of industrial applications.
Standards	VG 95343 T 05 B “ VG-approved” (VDE V 0341-9005), VDE-File-No. 088218, SAE-AS23053/5 class 2, VDE-File-No. 40038285	ASTM
Operating temperature	-55 to 135°C	-55 to 125°C
Orderable Sizes	1,20 - 101,6 mm	1,20 - 101,6 mm
Shrink ratio	2:1	2:1
Available colors	Clear	Black, blue, green, red, white and yellow. Brown and grey (B1)

SUMITUBE[®]

Single Wall Polyolefin



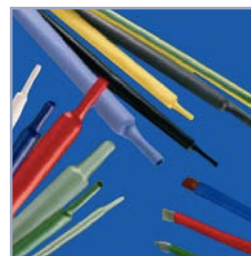
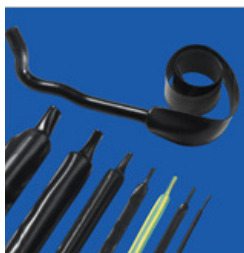
Product name	SUMITUBE™ B11 (3x)	SUMITUBE™ B2
Description	Commercial flame retardant, flexible polyolefin tubing. Versatile and suitable for a wide range of industrial applications.	The Sumitube® B2 is a very flexible, highly flame retardant, high grade polyolefin tubing. Meets the requirements of a wide range of industrial and high-tech standards.
Standards	ASTM	CSA C 22.2 No. 198.1: 125°C 600V VW-1 (File No. 033298-0-000), SAE-AS23053/5 class 1&3, UL 224 125°C 600V VW-1 (File No. E48762)
Operating temperature	-55 to 125°C	-55 to 135°C
Orderable Sizes	3,0 - 24,0mm	1,20 - 101,6 mm
Shrink ratio	3:1	2:1
Available colors	Black	Black, Brown, Red, , Yellow, Green, Blue, Gray, White, Yellow/Green



Product name	SUMITUBE™ B2 (3x)	SUMITUBE™ F2 (Z)
Description	The Sumitube® B2(3x) is a very flexible, highly flame retardant, high grade polyolefin tubing. Meets the requirements of a wide range of industrial and high-tech standards.	Very flexible highly flame retardant polyolefin tubing. UL and CSA recognised and marked. Low shrink temperature.
Standards	CSA C 22.2 No. 198.1: 125°C 600V VW-1 (File No. 033298-0-000), UL 224 125°C 600V VW-1 (File No. E48762)	ASTM, CSA C 22.2 No. 198.1: 125°C 600V VW-1 (File No. 033298-0-000), UL 224 125°C 600V VW-1 (File No. E48762)
Operating temperature	-55 up to 135°C	-55 up to 125°C
Orderable Sizes	1,50 - 40,0 mm	1,20 - 50,8 mm
Shrink ratio	3:1	2:1
Available colors	Black	Black

SUMITUBE®

Single Wall Polyolefin



Product name	SUMITUBE™ B55	SUMITUBE™ NH
Description	Very flexible light weight polyolefin tubing. Halogen free and flame retardant according to automotive standard. Specially designed to meet the requirements of the automotive industry. Nevertheless very versatile.	Halogen free flame retardant flexible polyolefin tubing. Low smoke index to meet strict fire security standards in electrical insulation and protection in public areas.
Standards	ASTM, FMVSS 302	ASTM, BS 6853, BSS 7239 Boeing Specification Support Standard, Japanese Standard for railway vehicle material, LUL. Stand. E 1042. A6, EN45545-2, IEC 60684-3-216
Operating temperature	-70 up to 135°C	-40 up to 105°C
Orderable Sizes	1,20 - 127,0 mm	1,60 - 50,8 mm
Shrink ratio	2:1	2:1
Available colors	Black	Black

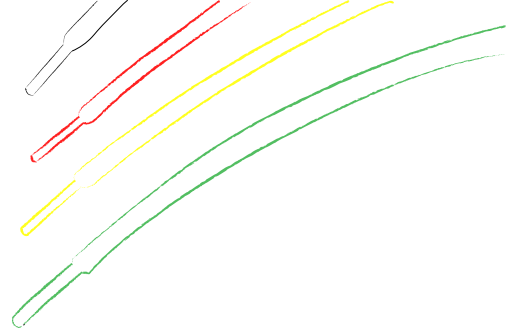
Dual Wall Polyolefin



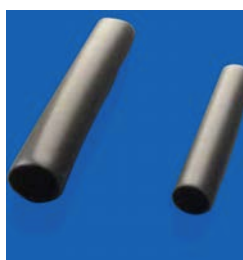
Product name	SUMITUBE™ O2	SUMITUBE™ W5B11
Description	The Sumitube® O2 is a halogen free, dual wall polyolefin tubing. Flexible with inner wall of hot melt adhesive. It was developed specifically for the needs of the automotive industry and has excellent protection against corrosion of brake and fuel lines.	Flame retardant dual wall polyolefin tubing. Flexible with inner wall of hot melt adhesive. Suitable for electrical applications where good longitudinal water tightness is needed.
Standards	ASTM D 2671, ISO 37, JASO M 104, JIS C 3005	ASTM
Operating temperature	-55 to 105°C	-55 up to 110°C
Orderable Sizes	6,00 - 11,0 mm	3,00 - 40,0 mm
Shrink ratio	-	3:1
Available colors	Black	Black

SUMITUBE[®]

Dual Wall Polyolefin

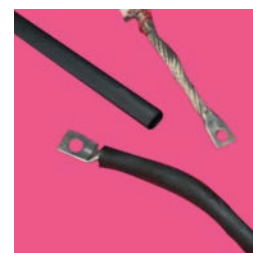


Product name	SUMITUBE™ W5B11 (4x)	SUMITUBE™ W5C
Description	Flame retardant dual wall polyolefin tubing. Flexible with inner wall of hot melt adhesive. Suitable for electrical applications where good longitudinal water tightness is needed	Flexible polyolefin halogen free tubing with inner liner of hot melt adhesive. Transparent colour enables visual inspection of substrate.
Standards	ASTM	ASTM
Operating temperature	-55 up to 110°C	-55 up to 105°C
Orderable Sizes	4,00 - 32,0 mm	3,2 - 40,0 mm
Shrink ratio	4:1	3:1
Available colors	Black	Clear



Product name	SUMITUBE™ SA3CP
Description	Semi-rigid, heat-shrinkable tubing with a thick, hot-melt adhesive liner which melts and flows, encapsulating and sealing components contained within.
Standards	ASTM
Operating temperature	-40 up to 125°C
Orderable Sizes	5,75 - 18.3 mm
Shrink ratio	4:1
Available colors	Black

Elastomer

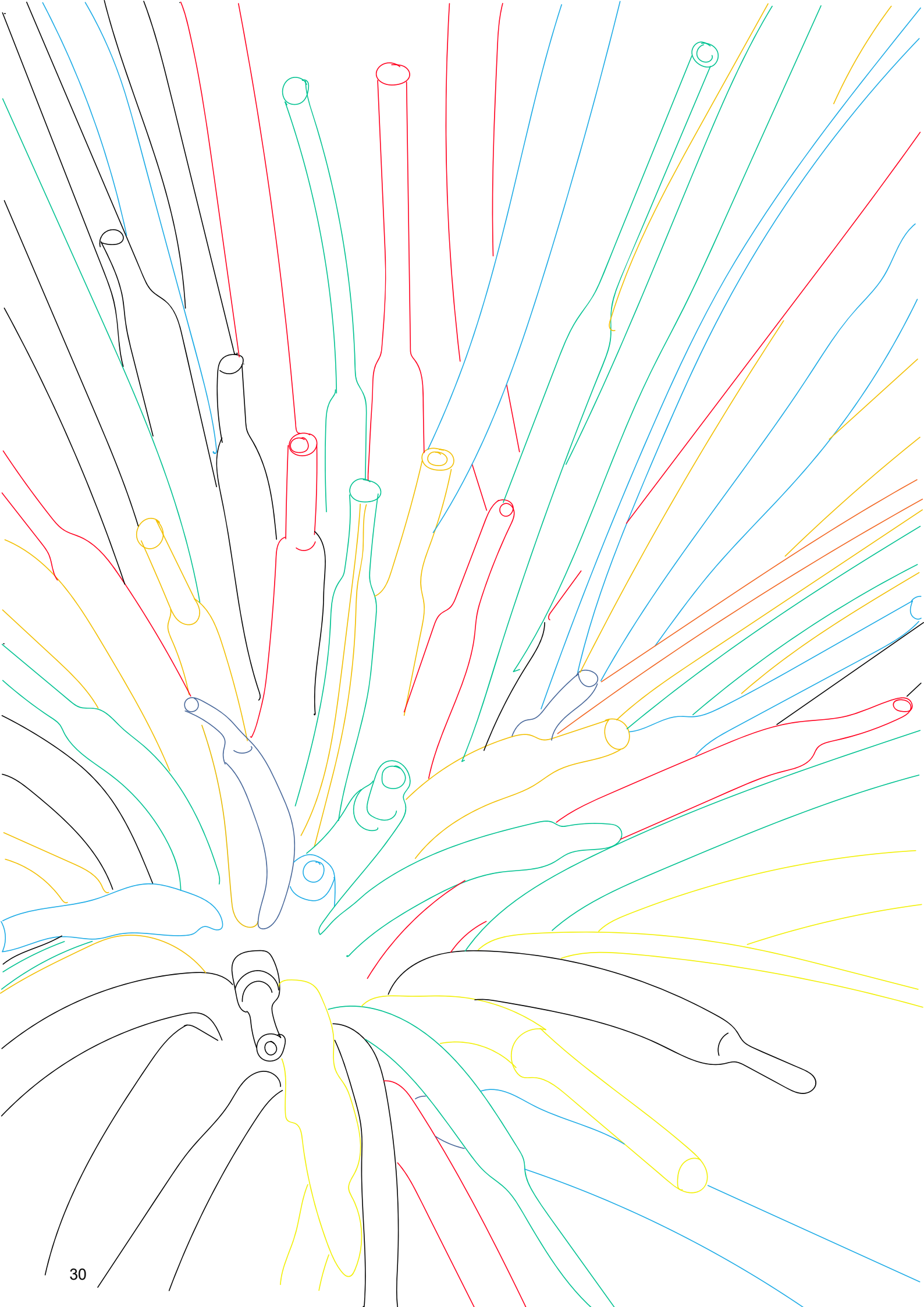


Product name	SUMITUBE™ AN25	SUMITUBE™ R10
Description	AN25 is a heat shrinkable tubing made of cross-linked elastomeric material. It is flexible, flame retardant, abrasion- fluid- and Diesel resistant. Suitable for high temperature applications up to 150°C and long term solutions.	SUMITUBE R10 is a rubber-like, flame retarded chlorinated polyolefin heat-shrinkable tubing. It's recommended for general purpose applications which require excellent abrasion and chemical resistance, such as diesel fuel environments. R10 has excellent properties at low temperatures.
Standards	VG 95343 T 05 D "VG-approved" (VDE V 0341-9005), VG 95343-14, VG 95343-2, VDE-File-No. 088218, SAE-AS23053/16	23053/1-101, 23053/1-201
Operating temperature	-75 up to 150°C	-75 up to 120°C
Orderable Sizes	3,20 - 102,0 mm	3,20 - 101,6 mm
Shrink ratio	2:1	2:1
Available colors	Black	Black

Special Products



Product name	SUMISEAL
Description	Halogen free crimp sealed tubing. Three colour coded sizes, excellent strain relief, solvent and moisture resistant, visually inspectable, good physical and electrical properties.
Standards	ASTM
Operating temperature	-40 up to 105°C
Orderable Sizes	3.2 (Red), 4.8 (Blue) and 6.4 (Yellow)
Shrink ratio	1:1
Available colors	Red, blue and yellow





APPLICATIONS AND PROPERTIES

Application/s	Characteristics
To clamp, hold, join cables or cable harnesses, pipes or any element that needs to be protected by clamping. Being an element universal are present in several sectors complying with all the necessary requirements, from automotive, marine, electrical, ventilation/heating, pneumatics etc.	Our CTX flange has all the regulations to be a quality guarantee. We have the UL, RoHS, CE approvals and has a temperature of work from -20° to +85°. The black color has a natural protection against ultraviolet rays that will vary depending on the different environmental effects to which the clamp is subjected.

Measurement table

Item code	Bundle diameter min/max		Loop tensile	Operating temperature min/max		Amount of cable ties by box
2.5x100	2 (0.079)	23 (0.905)	80(18)	-20	85	50.000
2.5x150	3 (0.079)	39 (1.535)	80(18)	-20	85	50.000
2.5x200	2 (0.079)	55 (2.165)	80(18)	-20	85	25.000
3.6x150	3 (0.118)	63 (2.185)	180 (40)	-20	85	10.000
3.6x200	63 (2.185)	72 (2.845)	180 (40)	-20	85	10.000
3.6x300	3 (0.118)	83 (3.268)	180 (40)	-20	85	10.000
3.6x370	3 (0.118)	106 (4.173)	180 (40)	-20	85	10.000
4.8x200	3 (0.118)	50 (1.969)	220 (50)	-20	85	10.000
4.8x250	3 (0.118)	65 (2.559)	220 (50)	-20	85	10.000
4.8x300	3 (0.118)	83 (3.268)	220 (50)	-20	85	10.000
4.8x350	3 (0.118)	99 (3.898)	220 (50)	-20	85	10.000
4.8x400	3 (0.118)	115 (4.528)	220 (50)	-20	85	10.000
4.8x450	3 (0.118)	130 (5.118)	220 (50)	-20	85	5.000
7.2x300	4 (0.157)	82 (3.228)	530 (120)	-20	85	5.000
7.2x350	4 (0.157)	98 (3.858)	530 (120)	-20	85	5.000
7.2x400	4 (0.157)	114 (4.488)	530 (120)	-20	85	5.000
7.2x450	4 (0.157)	130 (5.118)	530 (120)	-20	85	2.500
7.2x530	4 (0.157)	156 (6.142)	530 (120)	-20	85	2.500
7.8x750	4 (0.157)	163 (6.6278)	530 (120)	-20	85	2.500
9x550	8 (0.315)	153 (6.024)	800 (175)	-20	85	2.500
9x750	8 (0.315)	219 (8.622)	800 (175)	-20	85	1.000
12.6x650	18 (0.709)	185 (7.283)	1200 (250)	-20	85	1.000
12.6x900	18 (0.709)	260 (10.236)	1200 (250)	-20	85	1.000



APPLICATIONS AND PROPERTIES

Application/s	Characteristics
<p>CTX stainless steel cable ties are designed for applications where a solid hold is required no matter the conditions are thanks to his closing mechanism and secure that it does not come loose even under vibration. Therefore, these clamps are indicated in all those applications where safety is the first priority.</p>	<ul style="list-style-type: none"> - Unique ball locking mechanism that allow easily and quickly installed and not undone - High tensile strength. Non flammability - Working temperature from -60° to 550° - High resistance to acetic acid, alcali acid, sulphuric acid, corrode, etc. - All lenghts available - Stainless Stell type 304 or 316

Measurement table

Part number	Width (mm)	Lenght (mm)	Thickness (mm)	(mm) Max.bundle dia	Tensile Strength
4.6 x 100	4.6	100	0.25	23	80KGS (800N)
4.6 x 150		150		37	
4.6 x 200		200		50	
4.6 x 250		250		63	
4.6 x 300		300		76	
4.6 x 350		350		89	
4.6 x 400		400		102	
4.6 x 450		450		115	
4.6 x 500		500		128	
4.6 x 550		550		141	
7.9 x 150	7.9	150	0.25	37	100KGS (1000N)
7.9 x 200		200		50	
7.9 x 250		250		63	
7.9 x 300		300		76	
7.9 x 350		350		89	
7.9 x 400		400		102	
7.9 x 500		500		128	
7.9 x 1000		1000		286	
7.9 x 1200		1200		350	

Measurement table					
Part number	Width (mm)	Lenght (mm)	Thickness (mm)	(mm) Max.bundle dia	Tensile Strength
10 x 200	10	200	0.25	50	1000KGS (1000N)
10 x 300		300		76	
10 x 400		400		102	
10 x 500		500		128	
10 x 1000		1000		286	
10 x 1200		1200		350	
12 x 200	12	200	0.25	50	120KGS (1000N)
12 x 250		250		63	
12 x 300		300		76	
12 x 400		400		102	
12 x 500		500		128	
12 x 1200		1200		350	
15 x 300	15	300	0.4	76	150KGS (1500N)
15 x 400		400		102	
15 x 500		500		128	
15 x 1000		1000		286	
19 x 800	19	800	0.4	223	150KGS (1500N)
19 x 1000		1000		286	
19 x 1200		1200		350	
19 x 1500		1500		445	
19 x 1800		1800		540	
19 x 2000		2000		605	



APPLICATIONS AND PROPERTIES

Application/s	Characteristics
Specially designed for fixing by Nylon ties. For the installation of water pipes, electricity, gas, heating, pneumatic, air conditioning, etc.	High thermal resistance (from -40 to +80 degrees). Its great resistance allows very safe installations. Quick and easy to install, just drill and tap the plug with a hammer, pass the flange through the hole and place the tube. Made of Polyamide 6 (Nylon).

Measurement table

A	B	C	D	Ø Drill	Container	Packing
9.75	37	6.5	9.7	8	100	5.000
7.80	31	6.2	9.7	6	100	5.000

Measurements in (mm.)



Polyamide



Ultraviolet



Extreme temperatures



Respect the environment



Patent model



Compliant



Sound protection



Halogen free

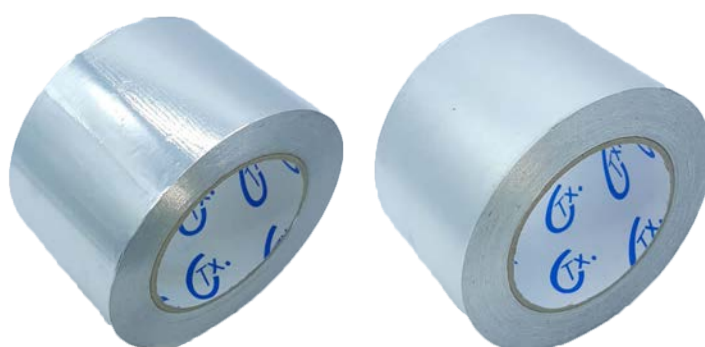
Approvals



DESCRIPTION

Due to a long history in the market, CTX aluminum tapes have established themselves as one of the main references in the air conditioning and insulation sector. We have a wide range of standard sizes and we offer the possibility of presenting them in different widths, lengths and microns according to the needs of the client in standard color, black and white and in reinforced from 120 microns. The standard colors are bright and matt aluminum.

CTX 30mic Aluminum Foil Tape



TECHNICAL DATA

Product description	Features	Areas of Use
CTX Aluminum Foil Tape is a 30u nominal soft aluminum foil with acrylic adhesive and protected.	<ul style="list-style-type: none"> - Excellent Peel Adhesion - Good Initial Tack & Permanent Bonding - Flame retardant - Water resistant - Outstanding high temperature resistance & Aging Resistance 	To tape serpentine, tube insulation, fix freezer plate, in Evap assembly group.

TECHNICAL PROPERTIES

Characteristic	Unit	Value
Width	mm	30-40-50-75-100-125-160-165-175-200-210-225-235-290-400-500
Color	-	Silver
Backing	-	Aluminum foil
Adhesive Type	-	Water based acrylic
Backing Thickness	micron	30
Total Thickness	micron	70
Adhesion to steel	N/25mm	Min 40
Tensile strength	N/25mm	Min 40
Elongation at break	%	5
Temp. resistance	oC	about - 30 < T < 120

Reinforced Aluminum Foil Tape



TECHNICAL DATA		
Product description	Features	Areas of Use
Reinforced Aluminum Foil Tape is a 120u nominal soft aluminum foil with water based adhesive and protected by easy release liner.	<ul style="list-style-type: none"> - Excellent Peel Adhesion - Good Initial Tack & Permanent Bonding - Flame retardant - Water resistant - Outstanding high temperature resistance & Aging Resistance - Consistent with the appearance of the veneer - Higher tensile strength than pure Aluminum foil tape - More stiff, and not easy to curl. 	To tape serpentine, tube insulation, fix freezer plate, in Evap assembly group.

TECHNICAL PROPERTIES		
Characteristic	Unit	Value
Width	mm	30-40-50-100-125-160-165-175-200-210-225-235-290-400-500-1000-1200-1350
Color	-	Silver
Backing	-	Aluminum foil
Adhesive Type	-	Water based adhesive
Backing Thickness	micron	70
Total Thickness	micron	120
Adhesion to steel	N/25mm	25
Tensile strength	N/25mm	75
Tack Rolling Ball	cm	≤20
Elongation at break	%	15
Temp. resistance	oC	about 20 < T < 95
Use Temperature	oC	20< T < +120



DESCRIPTION

As distributors of Advance Tapes UK for more than 30 years, we take great care that all our imported material is guaranteed with the same quality as our main companies but with competitive and affordable price, adapting to the demands of the sector. This is why our PVC tape has been present in the Spanish and Portuguese markets for years with total fidelity and a permanent stock due to its continuous demand. We have all colors including violet and pink.

TECHNICAL DATA

Features	Uses
<ul style="list-style-type: none"> - Good insulation with a working temperature of -5° a 70° - Standard thickness of 0,13 mm with a 150% of elongation - Natural resistance to voltage, flame and cold - Soft material and easy to use. 	Widely used for wire and cable insulation.

TECHNICAL PROPERTIES

Total thickness	Peel force	Back peel force	Tensile force	Elongation	Dielectric Strength
(mic)	(N/cm)	(N/cm)	(N/cm)	%	(KV)
120	1.4	1.4	18	150%	4.8
130	1.4	1.4	20	150%	5.2
150	1.4	1.4	22	170%	6.0
180	1.4	1.4	24	190%	7.2
200	1.4	1.4	25	190%	8.0



TECHNICAL DATA

Description	Uses
CTX self-amalgamating tape (0.76mm) is a rubberized tape that can adhere to itself without heat or adhesive providing an easy installation.	Used for cable splicing and cable termination kit, for cable insulation and repair, waterproof and dustproof.

TECHNICAL PROPERTIES

Test item	Data
Thickness (mm)	0.76
Strength (KN/M)	0.5
Elongation (%)	500
Applicable voltage (kV)	10
Self fusing	pass
Temp Range (°C)	80
Emergency temp (°C)	100

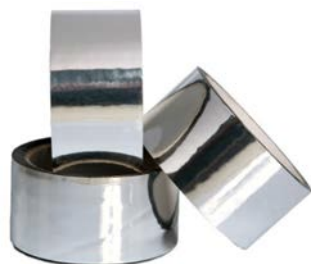
Remarks: Note that the above table represents the normal/standard levels of quality testing currently utilized.



DESCRIPTION
Polypropylene with or without noise and with the possibility to customize the tape to suit the client under request. The standard colors are clear, brown and white, in widths of 48 mm and in lengths of 66/132 meters.

TECHNICAL DATA		
Product description	Features	Areas of Use
BOPP BROWN TAPE is a 40 nominal soft BOPP film with acrylic adhesive. It is widely used in packing. The performance is steady.	<ul style="list-style-type: none"> - Strong Adhesive - Good Tensile Strength - Wrapped Tight - High Tack Performance 	Packing and fixing.

TECHNICAL PROPERTIES		
Characteristic	Unit	Value
Color	-	Clear
Tack	#	Max 20
Liner	-	-
Adhesive Type	-	Water based acrylic
Glue Thickness	micron	Min 15
Backing Thickness	micron	Min 25
Total Thickness	micron	Min 40
Tensile Strength	N/cm	Min 20
Elongation at Break	%	Max 5
Heat Resistance	°C	- 10 < T < 80
Storage Temperature	°C	0 < T < 45
Application Temp	°C	-
Lead Content	PPM	-
Cohesion	h	Min 24
Cohesion(70°C)	h	-
Cohesion(23°C/24h)	mm	-
Peel adhesion	N/cm	2 < T < 4
ROHS Compliance	-	-
REACH Compliance	-	-



TECHNICAL DATA		
Features	Applications	Storage
<ul style="list-style-type: none"> - Adhesive tape with bi-oriented polypropylene backing and water-based acrylic adhesive. - Color: metallic gray 	<p>It is used to wrap cables in air conditioning installations and to bundle aluminum coated panels. In some cases it replaces the aluminum tape due to its characteristic of impermeability to steam and resistance to low and high temperatures.</p> <p>Also used for the most usual decorations such as gift packages, decorations of Christmas, accessories in theater sets, etc...</p>	<p>It is recommended that you limit storage up to 6 months to ensure excellent performance. Store preferably between 14 and 28°C. Avoid humidity.</p>

TECHNICAL PROPERTIES	
Backing	Polypropylene
Adhesive Type	Water based acrylic
Total Thickness (mm)	48
Adhesive Grammage (gr/m2)	20
Adhesion (N/cm)	2,4
Breaking Load (N/cm)	40
Elongation (%)	110

Remarks: The values shown are the results of tests carried out during our production and are subject to change without notice. Therefore, they do not constitute a reason for commitment on the part of our company.

CTX Products Branded

CTX Masking Tape



TECHNICAL DATA		
Description	Features	Uses
Like the packaging tape, the masking tape has been gaining strength till becoming one of the most demanded tapes. Thanks to his versatility and universal presence allow us to offer a continuous rotation. We stand out above all his good tac and fidelity about no leaving residues on the surface (up to a week).	<ul style="list-style-type: none"> - Semi-Krepp Paper Adhesive Tape - Solvent adhesive with natural rubber - Working temperature of 60° or 80° - Available colors: yellow and white - To guarantee all his qualities we recommend storage it between 14°-28° avoiding humidity 	Tape destined to packaging and masking of internal surfaces.

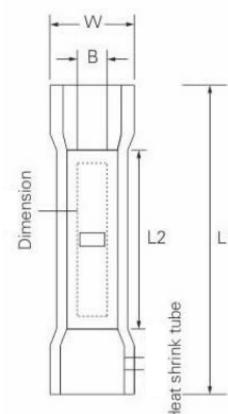
CTX - Sumi Butt Splice Heat Shrink Connectors



DESCRIPTION
<p>CTX SUMI connectors are produced with a copper crimping barrel and two-layer, semi-rigid, heat-shrinkable polyolefin tubing. The crimp barrel connects the electrical wires when they are crimped, while the tube insulates the wires. Hot melt adhesive is coated on the inside wall of the two-layer tube so that the adhesive melts and fills the space between the corrugated cylinder and the wire when the tube shrinks. Due to the above feature, CTX SUMI can be used to connect electrical cables protecting the cable joint from water, dust and other unwanted external influences. Furthermore, connecting cables with this product makes cable jointing smoother, more compact and more reliable than conventional tape-based waterproofing processes.</p>

Features

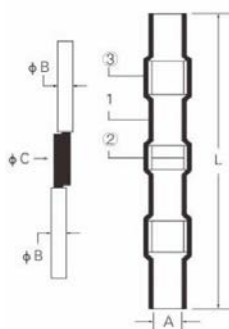
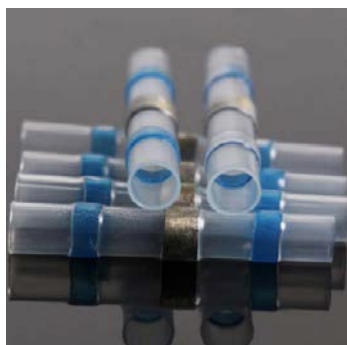
- 100% waterproof, excellent fluid resistance
- Very high abrasion resistance
- Operating temperature: -55°C to +125°C
- Minimum shrink temperature: 110°C
- Color: Red, Blue, Yellow
- Shrink ratio: 3:1



TECHNICAL PROPERTIES

Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	28MPa (min)
Elongation at break	ASTM D 2671	500% (min)
Longitudinal Shrinkage	UL 224	0 to -10%
Heat Shock	250°C/4hrs	No cracking, Flowing of out wall
Heat Resistance	165°C/168hrs	No cracking, Flowing of out wall
Cold Bend (-40°C/1hr)	ASTM D 2671	No cracking
Voltage Withstand (AC 2500V, 60sec.)	ASTM D 2671	No breakdown
Volume Resistivity	ASTM D 876	10 ¹⁴ cm (min)
Copper Corrosion	UL 224	Pass
Water Absorption	ASTM D 570	≤0.5%
Fluid Resistance (23°C/24hrs)	ASTM D 2671	Good to excellent
Specific Gravity	ASTM D 792	1.01g/cm ³
Tensile Strength	ASTM D 2671	28MPa (min)

AWG	Lead Section mm ²	(mm)		(mm)		Color	Description
		B	L2	W	L1		
20-22	0.3-0.5	1.0	12	3.0	26.0	Yellow	Heat Shrinkable: PE Brass Material: copper
22-18	0.5-1.0	1.2	15	4.8	26.5	Red	
16-14	1.5-2.5	2.4	15	5.8	26.5	Blue	
12-10	4.0-6.0	3.6	15	6.8	41.5	Yellow	



- 1- Heat shrinkable tubing
- 2- Low temperature solder sleeve
- 3- Waterproof hot melt adhesive

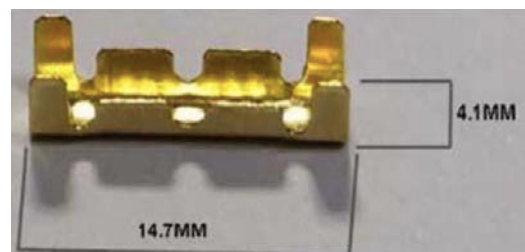
TECHNICAL DATA

Description	Features
CTX SWT connectors are designed for splicing bare or tinned copper stranded wires rated for at least +85°C. The SWT insulation is made from polyolefin tubing with 2 color coded hot melt adhesives. The rings will melt and flow to seal and encapsulate the internal components, offering environmental protection. Available in 4 sizes and colors.	<ul style="list-style-type: none"> - Material: Tinned Copper - Colors: Red, Blue, White, Yellow - Operating frequency: Low frequency - Production process: Welding/Insulator material: Nylon - Category: Line to line - Features: Waterproof/Insulated - Operating temperature: -55°C ~ 105°C - Start shrink temperature: 60°C - Solder start melting temperature: 138°C - Solder completely melting temperature: 158°C

AWG	Lead mm2	(mm) A (min) L (min)		(mm) B (min) B and C (min) C (min)			Color	Description
26-24	(0.25-0.34)	1.7	26.0	1.0	1.7	0.8	White	D Heat shrinkable tubing Low temperature solder sleeve Waterproof hot melt adhesive
22-18	(0.5-1.0)	2.7	40.0	1.4	2.7	1.2	Red	
16-14	(1.5-2.5)	4.5	40.0	2.3	4.5	2.0	Blue	
12-10	(4.0-6.0)	6.0	40.0	3.7	6.0	3.4	Yellow	

CTX - Tibu Brass Crimp Electrical Connector

Description	Features
Golden brass terminal for cable splices, for crimping and for cable sections 0.5 - 1.5mm2 and 1.5mm2 to 2.5mm2. Protect it with heat shrink.	<ul style="list-style-type: none"> Material: Brass Color: Golden - Pickling on the surface layer to prevent oxidation. - Easy to use. Durable in use.



SIZE	Cable Section	Length		Width	
		Inch	mm	Inch	mm
TIBU-1,5	0,5-1,5mm2	0.58	14.7	0.16	4.1
TIBU-2,5	1,5-2,5mm2	0.6	15.3	0.25	6.4

Adhesive Tapes

Codalec NBR Adhesive Foam Tape



DESCRIPTION

Thought for the insulation and protection of pipes, tanks or valves, our 3 mm closed cell NBR foam tape guarantees its function in industrial cold and air conditioning installations with easy installation and handling (allowing it to be cut by hand) saving time to installers. The thermal insulation guarantees the correct compliance about the Regulation on Thermal Installations in Buildings (RITE). Available in black and white colors and in rolls of 10, 15 and 30 meters.

TECHNICAL DATA

Utilities	Available sizes	Color
The tape is used as thermal insulation and combines a high resistance factor to the diffusion of water vapor and to the low spread of the flame due to its easy installation. It is used as an anti-drip bandage and taping of copper tubes in elbows and difficult areas.	(Others can be valued) 50mm x 10 meters 50mm x 15 meters 50mm x 30 meters	Black

Features	Reference value	Proof test
Vapor Diffusion Resistance Factor water (μ)	≥ 7000	EN 13469/EN 12086
Water vapor permeability	0.07 $\mu\text{gm/Nh}$	BS4370:Part 2
Water absorption	< 0,1 kg/m ²	EN 13472/ EN 1609
NBR foam tape with flexible thermal insulation and reticular acrylic adhesive of approximately 4x1mm.	-	-
Working temperatures from -50° to 105°	-	-
Resistance to water vapor diffusion	-	-
Flame resistance M-1	-	-
Acoustic protection	.	-

Adhesive Tapes

Codalec Adhesive Polypropylene Spun Bond Tape



DESCRIPTION

For self-supporting ducts with exposed aluminum exterior at sight, ensuring the duct's watertightness and the perfect and permanent adhesion of the tape to the duct. Designed for applications with temperatures above 0 °C and specially designed for joining glass wool. Odorless, non-toxic and non-flammable. Vinyl adhesive in aqueous dispersion.

TECHNICAL PROPERTIES

Description	Polypropylene non-woven tape (black fliselin)
Adhesive Type	Modified acrylic
Protector	Havana silicone paper
Backing	Polypropylene non-woven fabric
Thickness	0,42mm
Adhesive Force (Aphera 5001)	15N/25mm
Temperature Range	-30°C + 100°C
Applications	Indicated as soundproofing in the automotive industry and joints.

RECOMMENDATIONS

NOTE

Keep the material in the original packaging, in a dry environment, away from sunlight and 50% relative humidity. Check before application that the surfaces are dry, clean and free of fats, oils or other substances.

The values of the products mentioned above are based on tests standards applicable to adhesive tapes and do not constitute a specification.

Under stable conditions of temperature (between 10 – 35 °C) and relative humidity of 50% the product maintains its properties for 12 months from the date of expedition.

It is the customer's responsibility to determine the suitability of the product by their own methods and tests, required for the final article.

Cable Ties

Codalec PA 66 Cable Ties Standard



DESCRIPTION

High quality PA 66 cable ties with Codalec brand guaranteeing the raw material origin exposed in the below technical square.

TECHNICAL PROPERTIES

		Material	Material Brand
Color	Natural	100% Polyamide 6.6 natural	Dupont Zytel 101F, 101L, Ascend Vydyne 21SPC, 21SPF
	Black	Polyamide 6.6 natural+ ~1% carbon black	Dupont Zytel 101F, 101L, Ascend Vydyne 21SPC, 21SPF + Dupont Zytel 105BK, Ascend Vydyne 25WSP
	Another colors	Polyamide 6.6 natural+Colorant	Dupont Zytel 101F, 101L, Ascend Vydyne 21SPC, 21SPF
Flammability of raw material		UL 94 - V2, Plenum Rated AH-2 (Low Smoke)	
Humidity absorption		2,7% - 2,8% (23°C - 50% R.H.)	
Installation temperature		-20° C ÷ +85° C	
Working temperature		40° C ÷ +85° C	
Max. sustainable temperature for short time		+110°	
Good resistance to		Bases, oils, greases, oil derivatives, chloride solvents. Limited resistance to acids. Not resistant to phenols.	
UV Resistance		Carbon black addition gives a better UV resistance (only for black color cable ties).	



LISTED



Adhesive Tapes

Cloth Duct Tape - High Grade - CDA132



Product Description	Features
Mesh 27 Black / Grey / Brown cloth backing, combined with a high performance synthetic rubber-resin adhesive.	<ul style="list-style-type: none"> • Cloth backing provides excellent reflection of both heat and light. • High quality adhesive with super strong adhesion and holding power offers reliable • Low moisture vapor transmission rate makes CDA132 an excellent vapor barrier. • Service Temperature range from -20° to +80°C (-4° to +176°F).

TECHNICAL PROPERTIES			
Properties	Metric	English	Test method
Cloth Backing	Mesh	27	-
Total Thickness	170 Micron	6.8/ Mil	PSTC-133
Peel Adhesion	15 N/25mm	54 Oz./In.	PSTC-101
Rolling Tack (11mm ball)	≤ 20 cm	≤ 8.0 In.	PSTC-106
Tensile Strength	75 N/25mm	17 Lb/in	PSTC-131
Service Temperature Ranger	-20° +80°C	-4 ~ +176 °F	-

PRODUCT FORM & SIZE AVAILABLE		
Cut Roll	Log Roll	Jumbo Roll
25mm / 48mm / 50mm (2") / 60mm / 63mm (2.5") / 72mm / 75mm (3") / 96mm / 100mm (4").	1060mm x 50m	1060mm x 1000m

Storage & Shelf life	Surface Preparation	Product use	Limited warranty & Limited remedy
One year when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.	It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.	It is essential that the user evaluate the product to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on product between +10 ~ +40°C (+50 ~ +105°F)	Your exclusive remedy & obligation shall be, at our tape's option, to replace or repair the product or refund the purchase price of the Cintubex product.

Adhesive Tapes

Cloth Duct Tape - High Grade - CDA175



Product Description	Features
Mesh 50 Black / Grey / Brown cloth backing, combined with a high performance synthetic rubber-resin adhesive.	<ul style="list-style-type: none"> • Cloth backing provides excellent reflection of both heat and light. • High quality adhesive with super strong adhesion and holding power offers reliable a • Low moisture vapor transmission rate makes CDA175 an excellent vapor barrier. • Service Temperature range from -20° to +80°C (-4° to +176°F).

TECHNICAL PROPERTIES			
Properties	Metric	English	Test method
Cloth Backing	Mesh	50	-
Adhesive Thickness	80 Micron	3.2/ Mil	PSTC-33
Total Thickness	230 Micron	9.2/ Mil	PSTC-33
Peel Adhesion	16 N/25mm	57 Oz./In.	PSTC-1
Rolling Tack (11mm ball)	≤ 10 cm	≤ 4.0 In.	PSTC-6
Service Temperature Ranger	-20° +80°C	-4 ~ +176°F	-

PRODUCT FORM & SIZE AVAILABLE		
Cut Roll	Log Roll	Jumbo Roll
25mm / 48mm / 50mm (2") / 60mm / 63mm (2.5") / 72mm / 75mm (3") / 96mm / 100mm (4").	1060mm x 50m	1060mm x 1000m

Storage & Shelf life	Surface Preparation	Product use	Limited warranty & Limited remedy
One year when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.	It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.	It is essential that the user evaluate the product to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on product between +10 ~ +40°C (+50 ~ +105°F)	Your exclusive remedy & obligation shall be, at our tape's option, to replace or repair the product or refund the purchase price of the product.

Adhesive Tapes

Cloth Duct Tape - High Grade - CDA180



Product Description	Features
Mesh 50 Black / Grey / Brown cloth backing, combined with a high performance synthetic rubber-resin adhesive.	<ul style="list-style-type: none"> • Cloth backing provides excellent reflection of both heat and light. • High quality adhesive with super strong adhesion and holding power offers reliable a • Low moisture vapor transmission rate makes CDA180 an excellent vapor barrier. • Service Temperature range from -20° to +80°C (-4° to +176°F).

TECHNICAL PROPERTIES			
Properties	Metric	English	Test method
Cloth Backing	Mesh	50	-
Adhesive Thickness	155 Micron	6.1 Mil	PSTC-133
Total Thickness	280 Micron	11.0 Mil	PSTC-133
Peel Adhesion	25 N/25mm	90 Oz./In	PSTC-101
Rolling Tack (11mm ball)	≤ 2.5 cm	≤ 1.0 In.	PSTC-106
Service Temperature Ranger	-20° +80°C	-4 ~ +176°F	-

PRODUCT FORM & SIZE AVAILABLE		
Cut Roll	Log Roll	Jumbo Roll
25mm / 48mm / 50mm (2") / 60mm / 63mm (2.5") / 72mm / 75mm (3") / 96mm / 100mm (4").	1060mm x 50m	1060mm x 1000m

Storage & Shelf life	Surface Preparation	Product use	Limited warranty & Limited remedy
One year when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.	It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.	It is essential that the user evaluate the product to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on product between +10 ~ +40°C (+50 ~ +105°F)	Your exclusive remedy & obligation shall be, at our tape's option, to replace or repair the product or refund the purchase price of the product.

Adhesive Tapes

PVC Adhesive Tape - High Grade



Product Description	Features
High quality Soft-PVC-Film, coated with a strong rubber based adhesive, hand applicable, 80°C.	<ul style="list-style-type: none"> - Rubber adhesive - PVC carrier - Black and other colors available - Flame resistant - Highly conformable - Meet ROHS

TECHNICAL PROPERTIES			
Properties	Typical Value	Unit	Test Method
Thickness	0.13±0.025	mm	ASTM D1000
Tensile strength	>21	N/cm	ASTM D1000
Elongation	>230	%	ASTM D1000
Adhesion	-	-	ASTM D1000
- to backing	>1.75	N/cm	-
- to steel	>1.75	N/cm	-
Flammability	self-extinguishing	-	ASTM D1000
Breakdown voltage	6.0	Kv	ASTM D1000

Note: The listed values are typical only and not intended to serve as product specifications.

Standard sizes	Colors	Recommended uses	Storage & Shelf life
Length: 10m, 20m, 25m, 33m Width: 19mm, 25mm Core ID: 32mm, 38mm	Black White Yellow Gray Blue Green Violet Red Brown Green/Yellow	It is specifically designed for used for wrapping electric wires and cables etc. wrapped wires with a half-lap is best. The last layer should be no tension to prevent flagging.	The shelf life of the product is two years when stored at 20-30°C, max 65% relative humidity and out of direct sunlight, in original packaging.

Standard Cable Ties Tool



Strength Level	Cable Tie Width (mm)	Tension Strength Minimum (kg)
0	2,2	5,5
1	2,5	8
2	3,5	12,5
3	4,5	14,5



Part No.	Cable Tie Width Min	Cable Tie Width Max	A	B	C	Weight (g)
5401-HB	2,2	4,8	160	130,0	20,3	300

Parameters	Values		
Width	2,5mm	3,5mm	4,5mm
Fastening angle	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$
Tensioning speed	< 50 mm/sec	< 50 mm/sec	< 50 mm/sec
Recommended Operating Temperature	23 °C \pm 10 °C	23 °C \pm 10 °C	23 °C \pm 10 °C
Recommended Operating Relative Humidity	50 % \pm 10 %	50 % \pm 10 %	50 % \pm 10 %
Pretensioning (setting)	from 30 to 40 N	from 50 to 70 N	from 80 N to 100 N
Recommended Storage Temperature	23 °C \pm 10 °C	23 °C \pm 10 °C	23 °C \pm 10 °C
Recommended Storage Relative Humidity	50 % \pm 10 %	50 % \pm 10 %	50 % \pm 10 %
Maximum shelf life after first bag opening	< 8 h	< 8 h	< 8 h

Cable tie gun type			
Tool code	Pretensioning (setting)		
5401-HB	0-1	2	3

Spun Rayon Wire Harness Tape (Manual/Machine Application)



Technical Information	Characteristics	Applications	Storage
<ul style="list-style-type: none"> - Carrier: Spun rayon fabric - Adhesive: Synthetic rubber - Colours: Black, white 	<ul style="list-style-type: none"> - Ageing resistant - Smooth - Resistant to low and high temperature - Solvent-free - PVC-compatible - High adhesion 	<p>The tapes are used for manual and machine binding and wrapping of cable sets and cable harnesses. Due to the controlled unwinding force, a good processing is ensured.</p>	<p>5°C to 35°C and dry in original packing.</p>

Stitch-Bonded Non-Woven Polyester Adhesive Tapes

Characteristics	Applications
<ul style="list-style-type: none"> - Material structure pleasant to the touch - Suitable for sound-dampening and rattle suppression in the transportation industry - Resistant to ageing and rotting - Very good resistance to cold and heat - Standard tape for better abrasion resistance and rattle suppression - Solvent-free synthetic rubber with good adhesionVery easy to apply due to easy-tear property - Available in various colours for colour-codingIn accordance with ECE-R118 / 03 	<p>For bundling and binding wire harnesses</p>

Polyester Cloth Tapes

Characteristics	Applications
<ul style="list-style-type: none"> Dense textile structure Resistant to ageing and rotting Very good resistance to cold and heatIncreased abrasion resistance Easy to tear by hand Highly heat-resistant Excellent resistance to motor vehicle operating fluids Compatible with many cable insulation materials (e.g. XPE and PP) Solvent-free acrylic adhesive 	<p>For bundling and binding wire harnesses- For the presentation of an abrasion-resistant and attractive appearance</p>

Highly Abrasion Resistant Pet Cloth Wire Harness Tape (Manual/Machine Application)

Construction	Characteristics	Applications
<ul style="list-style-type: none"> - Carrier: PET cloth, black, orange, violet, blue - Adhesive: Acrylic 	<ul style="list-style-type: none"> - Resistant to low and high temperatures <ul style="list-style-type: none"> - Heat-resistance for 3000h at 150°C - Suitable for short periods 240h at 175°C - Solvent-free - Abrasion-resistant - Rot-proof - PVC-compatible - Resistant to ageing - Smooth - Strong adhesion - Good dielectric characteristics - Outstanding resistance against chemicals, e.g. Diesel / Gasoline for more than 2 weeks 	<p>Areas for manual and machine bundling and wrapping of cable sets and wire harnesses. Due to the controlled unwind force, a good processing is ensured. The final winding has to be applied on itself and fixed by short thumb-pressure. Storage at about 5°C to 35°C and dry in original packing.</p>

Pet Cloth Wire Harness Tape

Construction	Characteristics	Applications	Storage
<ul style="list-style-type: none"> - Carrier: PET cloth - Adhesive: Synthetic rubber - Colours: Black, orange 	<ul style="list-style-type: none"> - Rotting resistant - Smooth - Resistant to low and high temperatures - Solvent-free - PVC-compatible - Resistant to ageing - Easy to tear - Strong adhesion 	<p>For bundling and wrapping of cable sets and wire harnesses. Due to the controlled unwind force, a good process is ensured. The final winding has to be applied on itself and fixed by short thumb-pressure.</p>	<p>About 5°C to 35°C and dry in original packing.</p>

No Adhesive Tape Air Signaling



Description	Characteristics	Application
<p>LDPE film of 50 total microns, printed in opacity for zone marking. It can be presented in bands: Red/White Yellow/Black Blue/White</p>	<p>Type of support Polyethylene Coex (LDPE)</p> <p>Average thickness 50 microns $\pm 10\%$</p> <p>Breaking strength DL 35 N/mm² $\pm 15\%$</p> <p>Breaking strength DT 38 N/mm² $\pm 15\%$</p> <p>Elongation at break DL 374% $\pm 15\%$</p> <p>Elongation at break SD 483% $\pm 15\%$</p> <p>Punching 147 gr*cm/μ ± 15</p>	<p>This film is recommended for marking areas susceptible to visual definition.</p>

Polyimide Electrical Tape With Thermosetting Silicone Adhesive Heat Class H



Description	Characteristics	Applications
Based on polyimide film which exhibits outstanding solvent and temperature resistance as well as excellent mechanical and electrical properties. High temperature resisting polysiloxane adhesive.	<ul style="list-style-type: none"> - Supporting base: polyimide film base - Thickness: 0.025 mm 1.0 mil - Total thickness: 0.060 mm 2.4 mil - Adhesive: polysiloxane thermosetting adhesive - Strength: 2.0 n/cm 18 oz/inch - Ultimate elongation: 50% - Tensile strength: 50 n/cm 28 lbs/inch - Dielectric strength: 5,900 volts 5,900 volts - Electrolytic corrosion factor*: a 1.0 a 1.0 - Flame retardancy: ul 94 vtm-0 - Colour: brown transparent - Heat class: h (temperature range up to 180oc) <p>tested in accordance with astm d-1000 latest issue, vde 0340*, b.s. 3924 * en 60454 ** astm d-1000</p>	<ul style="list-style-type: none"> - Insulation tape for very high temperatures. - For high stress conditions in traction machine manufacturing. - Excellent masking tape for high temperature applications. - Outer wrap for transformers, toroidal coils and motor coils. - Bundling of armature coils. - Short term heat resistance up to 400OC. - UL recognised

Soft Copper Adhesive Tape With Thermosetting Polyacrylate Adhesive



Description	Characteristics	Application
Based on soft copper foil, which is coated on one side with high performance acrylic adhesive. PPI 9110 is completely moisture resistant. Is supplied on a release paper interliner.	<ul style="list-style-type: none"> - Supporting base: soft copper foil base - Thickness: 0.035 mm 1.4 mil bs 3924 - Total thickness: 0.065 mm 2.6 mil - Adhesive: synthetic resin thermosetting - Adhesive strength: 4.5 n/cm 41 oz/inch - Tensile strength: 40.0 n/cm 23 lbs/inch - Adhesive coating: single faced - Colour: natural - Recommended curing cycle: 1 hour at 150oc or 2 hours at 130oc - Length of roll: 66 m 72 yards - Temperature resistance: 155oc 311of - Interliner: release paper tested in accordance with astm d-1000 latest issue, vde 0340, b.s. 3924. 	<ul style="list-style-type: none"> - Electrical conducting tape, solderable as heating element. - EMI/RFI shielding for motors, cables, cabinet and components. - Also available with a conductive adhesive.

Several Products

Cables

Non Slip Tapes



Description	Application
No abrasive anti slip tape with solvent acrylic adhesive in clear color and support of no abrasive clear PVC.	<ul style="list-style-type: none"> - Suitable for slippery areas such as bathrooms, showers, boats, etc... - Suitable for bare feet - Good resistance to water and UV rays

Non Slip Tape For Dark Places



Description	Application
No abrasive anti slip tape with solvent acrylic adhesive in fluorescent yellow color and support PVC film with aluminum oxide.	<ul style="list-style-type: none"> - Suitable for slippery areas such as stairs, floors, ramps, etc... avoiding falls and slips. - Good resistance to water and UV rays.

Double Face Tapes - 6209/6210/6215



Description	Characteristics	Applications	Recommendations
<ul style="list-style-type: none"> - Reference: 6209/6210/6215 - Double-sided white polyethylene foam tape 	Adhesive: Solvent acrylic Protector: Silicone paper Support: Foam thickness: 1mm Adhesive force (Afera 5001): 18N/25mm Temperature range: -30° + 100°	Fixation of mirrors, glass, profiles, etc.	Keep the material in the original packaging, in a dry environment, away from sunlight and a relative humidity of 50%. Check before application that the surfaces are dry, clean and free of grease, oil or other substances.

Double Face Tapes - 910



Description	Characteristics	Applications
<ul style="list-style-type: none"> - Reference: 900 - Double-sided black foam tape 	<ul style="list-style-type: none"> - Adhesive: Solvent acrylic - Protector: Green polyethylene silicone film - Support: Black polyethylene foam - Thickness: 1mm - Adhesive Strength (Afera 5001): 15N/25mm - Working temperature: 30°C + 100°C 	<p>Fixation of plates, mirrors, profiles, etc. that require high cohesion and resistance to UV rays. for exterior applications.</p>

Double Face Tapes - AC100C



Description	Characteristics	Applications
<ul style="list-style-type: none"> - Reference: AC100C - Acrylic foam 	<ul style="list-style-type: none"> - Adhesive: acrylic - Support: acrylic foam - Thickness : 1mm± 10% - Protector: red pe film - Adhesive strength:(afera 4001): 1 n/25 mm. - Stress at breakage :(afera4004): 67n/10mm590 - Elongation at break:(afera 4005): 590% - Temperature range: -40° + 120°C165°C - Maximum resistance: 165° - Adhesive: acrylic - Support: acrylic foam - Thickness : 1mm± 10% - Protector: red pe film - Adhesive strength:(afera 4001): 1 n/25 mm. - Stress at breakage :(afera4004): 67n/10mm590 - Elongation at break:(afera 4005): 590% - Temperature range: -40°C + 120°C 165°C - Maximum resistance: 165° 	<p>Excellent adhesion power. Indicated for glass, metal and plastics in the automotive sector. Good behavior to UV, humidity and high temperature. Applications that require to be transparent, invisible.</p>

Several Products

Cables

Double Face Tapes - 6530T



Description	Characteristics	Applications
<ul style="list-style-type: none"> - Reference: 6530T - Removable double face (PE film) 	Adhesive: blue synthetic rubber Protector: White silicone paper Support: HDPE film Thickness: 0,15mm Adhesive strength: Ext. 6,5N/25mm - Int. 30N/25mm Working temperature: - 10°C + 50°C	Fixation of fair carpet and delicate pavements, which require removable adhesive. Leaves no residue.

Double Face Tapes - 737



Description	Characteristics	Applications
<ul style="list-style-type: none"> - Reference: 737 -Double-sided polyester fabric tape (gauze) 	Protective Adhesive: Synthetic rubber Support: Havana silicone paper Color: White Thickness: 0,18mm Adhesive strength (Afera 5001): 28N/25mm Working temperature: -10° +60°	Fixation of carpets, felts, etc...

Double Face Tapes - 2419



Description	Characteristics	Applications
<ul style="list-style-type: none"> - Reference: 2419 - Removable double-sided tape (polyethylene film) 	Adhesive: blue synthetic rubber Protective White: Silicone paper Support: HDPE film Thickness: 0.15mm Adhesive force (Afera 5001): Ext. 6.5N/25mm - Int. 30N/25mm Temperature range - 10°C + 50°C	Fixation of fair carpet and delicate pavements, which require removable adhesive. Leaves no residue.

Several Products

Tapes / Tubes and Sleeves

PTFE Tape



Description	Characteristics	Applications	Certifications
Universal sealant compound of high density 100% PTFE.	<ul style="list-style-type: none">- Resistant to most chemical products, fluids, solvents, fuels and acids.- Working temperature between -200° up to +260°- Does not melt and does not burn- Keeps the same elasticity and does not harden or weaken over time- Completely inert	<ul style="list-style-type: none">- Suitable for all types of steel or plastic threads.- Salage at any pressure.- Suitable to any kind of fluids.	<ul style="list-style-type: none">- UL- WRAS- CSA-FDA

SP Polyethylene Spiral Cable Binding



Description	Characteristics
<ul style="list-style-type: none">- SP, recyclable polyethylene spiral cable binding. Medium wall- SP, Easy application and economy of use. Neat cable bundling and mechanical protection. Very good 'shape memory' and good cut-through resistance.- Available in black and transparent, other colors under request.	<ul style="list-style-type: none">- Melting point 112°C- Tensile strength: 10 N/mm² min- Ultimate elongation: 700 %min- Water absorption: 0,1% max- Specific gravity: 0,92 max- Chemical resistance: Good- Dielectric strength: 32 kV/mm- Dielectric constant: 2,2 max

PTFE Heat Shrink Tubing



Description	Characteristics	Applications
<p>PTFE heat shrink tubing is an ideal solution for applications which require protection against high temperatures and chemical resistance. Sold in its expanded state, PTFE heat shrink tubing shrinks to its original size when heat is applied, forming a tight jacket over the substrate material.</p> <p>Like traditional PTFE tubing, heat shrink PTFE is highly resistant to aggressive chemicals and extreme temperatures up to 260°C (500°F). It is available in continuous or cut lengths with shrink ratios of 2:1 and 4:1</p>	<ul style="list-style-type: none">- Highly resistant to aggressive chemicals- Highest use temperature of fluoropolymers: 260°C (500°F)- Melting Temperature: +320 °C- Excellent electrical insulation properties- Easily applied to a variety of substrates	<ul style="list-style-type: none">- Automotive sensor protection- Wire insulation

Several Products

Tubes and Sleeves

High Temperature and High Pressure Fluoropolymer PTFE Tubing



Description	Characteristics
<p>Made out of polytetrafluoroethylene resin, PTFE tubing has the highest working temperature of any fluoropolymer tubing available today.</p> <p>PTFE is widely used as a pressure tubing in general chemical applications such as delivery of natural gas and mineral oils, toxic gas monitoring, and paint, varnish or adhesive delivery lines. Also have several applications in the automotive. Electrical and appliance markets.</p>	<ul style="list-style-type: none"> - Fully fluorinated fluoropolymer tubing - Opaque/translucent color - Highest working temperature (up to +260°) out of all fluoropolymer tubing.

B50 Polyolefin Heat Shrink Tube



Description	Characteristics	Presentation
<ul style="list-style-type: none"> - Retardant normal wall heat shrinkable tube. - B50 TUBE SERIES Heat Shrinkable Tube has excellent un-flammability, flexibility, and insulation. The shrinking temperature is very low, and it can shrink very quickly. It is suitable for various electric insulation and bonding of cables and connectors and widely applied for connecting or end-handling, electric wire, insulating and harness of electric wire, corrosion-proof of metallic rods or tubes, and antenna protection. Material: Chemical, cross-linked (by radiation), thermally stabilized flame retarded polyolefin. Standard: UL 224 VW-1 C-UL CSA C 22.2 OFT RoHS Halogen Free Flame Retardant 	<ul style="list-style-type: none"> - Operating temperature: -55°C to +125°C - Shrinking Temperature: Start at 70°C and shrunk totally at 110°C (CB) or 115°C. - Size range: Ø 0,8mm to 180 mm (3/64 to 5 inch or larger), special size is negotiable. - Shrink ratio: 2:1. - Available Color: Black, Red, Yellow, Green, Blue, White, Purple and Grey. - Can produce upon customer's special requirement. 	<ul style="list-style-type: none"> - Rolls - Mini boxes - Pieces of 1,22 mt - Pieces of 1 mt

W5B50 Dual Wall Heat Shrinkable Tube With Internal Adhesive



Description	Characteristics
<p>TUBE SERIES Dual Wall Heat Shrinkable Tube is manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protected articles. Used to protectable bundles wires and metal tubes against water and moisture.</p>	<p>Size range: Ø3.2 ~ Ø50 mm (1/8~2 inch) Shrink Ratio: 3:1 Available Color: Black, other color can make upon customer's special requirement.</p>

Several Products

Tubes and Sleeves

TPM Dual Wall Heat Shrinkable Tube with Internal Adhesive



Description	Characteristics	Applications
Heavy wall heat shrinkable tubing with radiation cross-linked polyolefin outer layer for excellent insulation, corrosion prevention and adhesive inner layer for waterproof sealing and insulation.	<ul style="list-style-type: none"> - High Shrink: 3:1 & 4:1 - Abrasion Resistant - Optional flame retardant - Also available without adhesive liner 	<ul style="list-style-type: none"> - Insulation and environmental protection of cable joints. - Other applications where requires insulation and protection, sealing or cable jacketing. - Resistance to voltage from 600v to 1,000v

PVC Heat Shrink Tubing



Description	Characteristics
PVC heat shrink tubes are used for applications where a high working temperature is not required, normally between 70° and 80° for protection and insulation of cables, cable harnesses, connectors, terminals, etc. Supply in all colors.	<p>Atoxic, flame retardant, ecologic.</p> <p>Does not contain: heavy metals, as cadmium, lead, hexavalent chromium or mercury, Asbestos, latex, recycled plastic.</p> <p>Does not contain Bisfenol A (BPA) and Bisfenol F (BPF), Phthalates, nanomaterials as defined in Art2(1) of Regulation1223/2009/EC., epoxy derivative.</p> <p>Does not contain allergens according to Regulation 1169/2011/EC on Allergens does not contain Genetically Modified Organisms (GMO).</p>

SWT Solder Sleeve Wire Splices



Description	Characteristics
<p>SWT, Polyolefin heat shrinkable Solder Sleeve Wire</p> <p>SWT is designed to splice tin-plated or bare copper stranded wires rated for at least +85 °C. The insulation of the SWT is made of polyolefin tubing with 2 thermoplastic, color coded, adhesive. The rings will melt and flow to seal and encapsulate the inner components, offering an environmental protection.</p>	<ul style="list-style-type: none"> - Shrink Ratio: 3:1 - Operation temperature: -55° to 125° - Melt temperature solder alloy > 140° - Available in 4 sizes: with his corresponding color.

Several Products

Cable Ties and Several Fixing Elements

PA 66 Cable Ties



Description	Characteristics
PA 66 Cable ties to hug, fasten, join cables or cable harnesses, pipes or any element that needs to be protected by fastening. Being a universal element, they are present in several markets.	<ul style="list-style-type: none"> - Cable ties for labeling - Special cable ties for feed industry - Full INOX cable ties - INOX tooth cable tie - Fixing PA collars - Recoverable cable ties - UV resistant cable ties - Cable ties with special heads - And much more, please see our web site.

Wall Plug Base in PA 6



Description	Characteristics
<p>Polyamide 6 plug for bridle, with or without wings.</p> <p>Specially designed for fixing using Nylon Cable Ties. For the installation of water, electricity, gas, heating, pneumatic, air conditioning, etc. pipes.</p>	<ul style="list-style-type: none"> - High thermal resistance (from -40 to +80 degrees). - Great resistance allows very safe installations. - Quick and easy to install, just drill and hit the plug with a hammer, pass the flange through the hole and place the tube - Base raw material: Made of Polyamide 6 (Nylon).

PA 66 Mounting Bases



Description	Characteristics
Several mounting bases made in PA 66 for cable ties and different fixing devices...	<ul style="list-style-type: none"> - Material: Polyamide 6.6 - Flammability of raw material: UL 94 - V2 - Humidity absorption: 2,7% - 2,8% (23° C - 50% R.H.) - Installation temperature: -10° C ÷ +60° C - Working temperature: -40° C ÷ +85° C - Excellent resistance to aromatic solvents, oils, greases, oil derivatives. - Good resistance to bases. - Limited resistance to acids. - Not resistance to phenols and to chlorinated solvents. - Halogens free - Available in different types. - Standard colors: clear and black

Several Products

Cable Ties and Several Fixing Elements - Terminal Blocks

Cable Ties Fixing Tools

Description
Several tools for cable ties to save time and money making the installation of the cable ties faster and professional. Available several tools for different sizes.



Threaded Fixing Base for Cable Ties



Description	Characteristics
Threaded base suitable for cable ties up to 9mm wide. To be fixed, my metric head plugs, to different building supports, concrete, solid bricks, etc.	<ul style="list-style-type: none">- Polyamide 6- Halogen free- Humidity absorption: 3%- Working temperature: -10° +65°- Min installation temperature: -5°- Flammability rating: UL94 V2- Resistant to external agents

PA 66 Terminal Blocks



Description	Characteristics
Facilitates conductor connection thanks to high screw mounting. Possibility of cutting in different numbers of poles.	<ul style="list-style-type: none">- Terminal blocks in natural- polyamide PA 6.6- self-extinguishing UL94 V2,- approved for working temperature of 110° C.

Glass Fiber Terminal Block



Description	Characteristics
Facilitates conductor connection thanks to high screw mounting. Possibility of cutting in different numbers of poles.	<ul style="list-style-type: none">- Polyamide PA 6.6 with 25% glass fiber- Self-extinguishing UL94V0- Working temperature of 150°C- Metallic inserts in brass OT58,- Nickel plated Screws in zinc plated steel

Polypropylene Terminal Blocks



Description	Characteristics
Extra flexible polypropylene terminal blocks for low installations.	Housing material: Polypropylene (PP) - Color: Black and white - Flame retardant to UL 94V-2 - Voltage 300V (UL) 500V (VDE) - Working temperature: T85 (IEC) 65° (UL) - Terminal body: steel, zinc plated - Screws: M3, 5x7 steel zinc plated - Wire range: 2,5mm up to 25mm - Approvals: UL, CE, VDE, FIMKO, CQC

Ceramic Terminal Blocks



Description	Characteristics
Ceramic terminal blocks for installations where requires high temperature resistance.	- Color: clear or light brown - Working temperature of 300° - Temperature spikes of 1.000° for the insulating body in steatite - Number of poles: 3 - Screw in white zinc plated steel

Polyester Expandable Mesh



Characteristics	Applications
- Material: PET - Recovery: $\geq 70\%$ - Operating temperatures: -50 to +130°C - Melting point: +260°C - Fire characteristic: self-extinguishing (V2 UL94) - Specifications: V2 UL94 DIN 5510 S4/SR2/ST2 NF F16-101/F16-102 I2F2 - Halogen free	- Economical duct with an expansion range from 1 to 2 for common applications. Also usable for railway rolling stock.

Several Products

Several Insulation Tubes

Polyamide Expandable Mesh



Characteristics	Applications
<ul style="list-style-type: none"> - Quality: PA6.6 - Coating: $\geq 80\%$ - Operating temperatures: -55 to $+135^{\circ}\text{C}$ - Flash point: $+255^{\circ}\text{C}$ - Behavior before flame: self-extinguishing (V2 UL94) - Properties: V2 UL94 - NF F16-101/ F16-102 - Halogen free 	<ul style="list-style-type: none"> - This tube is recommended for applications under conditions difficult and lends itself especially to the railway industry.

Wrap-Around Sheath of Polyester Monofilaments



Description
<p>ROUNDIT® 2000FR is a wrap-around sleeving manufactured from flame-retardant polyester monofilaments and multifilaments, designed for mechanical protection and maintenance of wire and cable bundles. Its construction with 100% covering ratio provides good abrasion resistance. The self-wrapping feature of ROUNDIT 2000FR allows for quick and easy installation and removal of the product for assembly and maintenance.</p> <p>ROUNDIT 2000FR may be applied and removed without any manipulation of connectors or fittings and offers an innovative solution in areas where breakouts are necessary.</p> <p>ROUNDIT 2000FR has many applications in the marine, railway and electronic industries.</p>

Polyurethane Thermoplastic Extruded Tube



Characteristics	Rules
<ul style="list-style-type: none"> - Temperature class F - Working temperature -30° to $+155^{\circ}$ - Temperature spikes up to 185° (some hours) - Constant dielectric strength from 8kV up to 15kV - Halogen free - Good resistance to mineral oil, alcohol, isopropanol, etc. - Good mechanic resistance - Good compatibility with varnishes of the same class - Self-extinguishing - Flexible - Watertight - Standard color: yellow - Other available colors: green, blue, red, black and orange 	<p>RoHS 2002/95/CE NF EN 60684-1 NF EN 60684-2 NF EN 6084-2, NF EN 6084-2</p>

Several Products

Several Insulation Tubes

No Shrinkable PVC Tubing



Description	Characteristics
Flexible PVC compound tube for electrical cable sheath extrusion.	<ul style="list-style-type: none">- Low emission of smoke and acid gases (<15%)<ul style="list-style-type: none">- Standard color black- Available in other colors under request<ul style="list-style-type: none">- Working temperature 80°- Available in different thickness- Quality: ST1-ST2-PVC/A-T11-T12-TM1 following HD21 and T152 following EN50290-2-21

No Shrinkable Silicon Tubes



Characteristics
<ul style="list-style-type: none">- Platinum vulcanized- Temperature range -60 °C - 200 °C- Mechanical properties are nearly constant over the entire temperature range<ul style="list-style-type: none">- Resistant to UV and ozone (resistant to radiation and non-aging)<ul style="list-style-type: none">- Excellent compression set- Resistant to many chemicals- Very good fire resistance- No toxic combustion gases<ul style="list-style-type: none">- Free of plasticizer- Can be colored as required

Several Products

Standard Copper Cables

Silicon Cables



Description	Cable Make-up	Technical Data
Multi wire conductor, single core, silicone rubber isolated cable.	<ol style="list-style-type: none"> 1. Annealed Copper Conductor (Class 5 DIN VDE 0295 and IEC 60228). 2. Special Silicone Rubber Insulation according to VDE 0250 Teil 816 and Harmonized Document HD 22.3 S3. 3. Special Silicone Rubber Inner Sheath 	<ul style="list-style-type: none"> - This cable is in compliance with VDE according to DIN VDE 0250 Teil 816 and Harmonized Document HD 22.15 S1. - EC directive: This cable confirms to ECD 73/23/EEC (low voltage directive). - Working Temperature: -60 °C to +180 °C - Peak Temperature: +250 °C for short time - Nominal Voltage U_0/U: 300-500 V - Conductor: fine stranded annealed copper wire (class 5) - Insulation Resistance: min. > 200 G Ω x cm. - Radiation Resistance: up to 20 x 10⁶ cJ / kg. (Up to 20 Mrad) - Core Insulation: Silicone rubber EI2 for insulation, special silicone compound for sheathing. - Cable Marking: According to DIN VDE 0293 (and/or customer requirements) - Tests: In reference to VDE 0250 Teil 816 and HD 22.15 S1. - Test Voltage: 2000 V; a.c. 50 Hz. - Lay Length: 12 – 18 D, nominal 14 D (D=stranding diameter) for < 7 cores. - Lay Direction: Left Stranding (according to customer specification)

Fiberglass Cables



Cable Make-up	Technical Data
<ol style="list-style-type: none"> 1. Annealed Copper Conductor (Class 5 DIN VDE 0295 and IEC 60228). 2. Special Silicone Rubber Insulation according to VDE 0250 Teil 816 and Harmonized Document HD 22.3 S3. 3. Special resin impregnated fiberglass special braiding. 	<ul style="list-style-type: none"> - This cable is in compliance with VDE according to DIN VDE 0250 Teil 816 and Harmonized Document HD 22.15 S1. - EC directive: This cable confirms to ECD 73/23/EEC (low voltage directive). - Working Temperature: -60 °C to +200 °C - Peak Temperature: +250 °C for short time - Nominal Voltage U_0/U: 300-500 V - Conductor: fine stranded annealed copper wire (class 5) - Insulation Resistance: min. > 200 G Ω x cm. - Radiation Resistance: up to 20 x 10⁶ cJ / kg. (Up to 20 Mrad) - Core Insulation: Silicone rubber EI2 for insulation, special silicone compound for sheathing - Cable Marking: according to DIN VDE 0293 (and/or customer requirements) - Tests: In reference to VDE 0250 Teil 816 and HD 22.15 S1. - Test Voltage: 2000 V; a.c. 50 Hz. - Lay Direction: Left Stranding (according to customer specification)

Several Products

Firesleeve Standard



Property	Standard	Tolerance	Test Method
Fiber	Fiberglass	-	-
Coating Material	Silicone Rubber	-	-
Continuous Working Temp.	260°C(500°F)	-	-
Max Short Time Exposure	1650°C(3000°F)	-	-
Insulation	≥10KV	-	ASTM D149
Molten Splash Resistance	Excellent	-	-
Flame Resistance	Excellent	-	-
Abrasion Resistance	Excellent	-	-
Moisture Resistance	Excellent	-	-
Flexibility	Excellent	-	-
Color	Red, Blue & Customized color		
With accessory	Possible with Velcro		
Application	Protecting hydraulic hoses, cables, wiring, used in metallurgy, steel mills, glass work, marine industry, petrochemical industry etc.		

Several Products

Silicone Rubber Self-fusing



Property	Standard	Test Result	Test Method
Density	$\geq 1.1\text{g/cm}^3$	1.16g/cm ³	-
Operating Temperature	260°C(500°F)	260°C(500°F)	-
Brittle Temperature	-65°C(-85°F)	-65°C(-85°F)	-
Hardness, durometer Shore A	45~55	47	ASTM D2240
Tensile Stress at 100% Strain	-	173psi	ASTM D412
Tensile Strength	$\geq 710\text{psi}(4.9\text{Mpa})$	1508psi(10.4Mpa)	ASTM D412
Elongation	$\geq 200\%$	605%	ASTM D412
Tear Strength	-	6.8kN/m	ASTM D624
Dielectric Strength	400V/mil(15.75kV/mm)	1000V/mil(39.6kV/mm)	ASTM D149
Electrical Class	H Class	H Class	-
Bond Strength	-	825N/m	ASTM D2148
Water Absorption	$\leq 3\%$	0.80%	-
Resistance to	Acids, Fuels, Oils, Ozones, Salt Water, UV Rays...		
Application	Used for Automotive, Marine, Electrical, Plumbing, Sealing, Insulating and General Purpose Applications. Include Water Hose & Pipe Repair, Weatherproofing Electrical Connections, Fittings & Hose Seal, Bundling Wires, Boat Rigging, Sport & Tool Handles, Plumbing Repair, Rope Ends, Bicycle & Wheelchair Handle Wraps, Emergency Radiator Hose Repair, Emergency O- Rings & Seals.		

Several Products

Silicone Rubber Self-fusing Tape with Fiberglass Reinforcement

Property	Standard	Test Result	Test Method
Thickness	0.5±0.1mm	0.5mm	-
Width	25±1mm	25mm	-
Working Temperature	-65°C ~ +260°C (-85°F ~ +500°F)	-65°C ~ +260°C (-85°F ~ +500°F)	-
Hardness, durometer Shore A	50±10	50	ASTM D2240
Volume Resistivity	≥10 ¹³ Ω/cm	10 ¹³ Ω/cm	ASTM D257
Elongation	15% ~ 25%	15% ~ 25%	-
Dielectric Strength	≥12kV/mm	15kV/mm	ASTM D149
Self Adhesion	-	≥50g/mm	-
Water Absorption	≤3%	0.90%	-
Resistance to	Acids, Fuels, Oils, Ozones, Salt Water, UV Rays...		
Application	Used for Automotive, Marine, Electrical, Plumbing, Sealing, Insulating and General Purpose Applications. Include Water Hose & Pipe Repair, Weatherproofing Electrical Connections, Fittings & Hose Seal, Bundling Wires, Boat Rigging, Sport & Tool Handles, Plumbing Repair, Rope Ends, Bicycle & Wheelchair Handle Wraps, Emergency Radiator Hose Repair, Emergency O- Rings & Seals.		

Several Products

PTFE Sealing Tape



Product Description	Benefits
PTFE sealing tape is a non-adhesive tape for use with threaded fittings and compression joints on all types of pipes, including potable water and liquid carrying pipework.	<ul style="list-style-type: none"> • Satisfies EN 751-3:1996 and BS 6920-1:2000. • Compatible with all chemicals, acids, alkalis, solvents. • Non Flammable.

Tape Color	Pack Size	Box Qty.
White	12mm x 12m x 0.075mm x 0.3g/cm ³	100 rolls
White	12mm x 12m x 0.075mm x 0.35g/cm ³	100 rolls
White	12mm x 12m x 0.1mm x 0.3g/cm ³	100 rolls
White	19mm x 15m x 0.075mm x 0.3g/cm ³	100 rolls

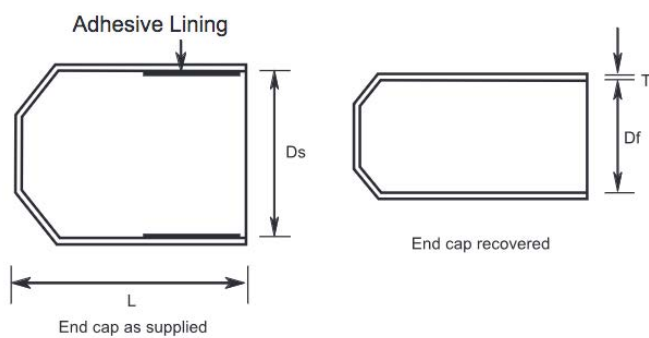
Limitations	Application
<ul style="list-style-type: none"> - Do not use on pipes, which contain liquid oxygen or flourine. - Do not use on pressure greater than 20bar. - It is the users responsibility to determine suitability for use. If in doubt contact technical services for advice. 	Remove any dirt, grease or metal shavings from threads. Apply the PTFE tape on the joint following the inclination of the thread overlapping by ½ to ¾ tape width (depending on thickness required). Apply tape with an even firm tension to ensure tight fitting around the thread.

Composition	Max diameter	Temperature	Max pressure	Tensile strength	Percentage elongation
PTFE (Polytetrafluoroethylene)	3/4" – 2"	-200°C to +260°C	20 bar	≥8N/mm	≥25%

Health & Safety	Storage	Shelf Life
Consult MSDS for full list of hazards.	Store in cool dry conditions between 5 and 28°C. Safe in normal use however as a precaution keep polythene outer packaging away from children.	Indefinite shelf life when stored as advised.

Several Products

Heat Shrink Cable End Cap



*New sizes D: Internal Diameter s: as supplied f: after free recovery

Product Description	Characteristics
End Cap is used to seal the ends of all types of Cables & protect from ingress of water/moisture. The caps are manufactured from high quality cross linked poly-olefin material.	<ul style="list-style-type: none"> - Compatible with most commonly used Cable Jackets i.e. XLPE, PVC, PILC or Rubber Sheathed Cable. - Hot Melt adhesive lining provides permanent seal on irregular cable sheaths. - Excellent resistance to weathering, moisture, contamination and adverse environmental conditions, according to IP 68 (Ingress Protection). - Tamper Proof Application: Custom Logo / Print with special non-removable Ink marks permanent seal on End Cap after Shrinking, thereby avoiding claims in case of Pilferage of Cable length. - Valved End caps (V) available for pressurized application for Telecom cables. - Special Relief valved End Caps (RV) available for degassing application in High Voltage Power cables. - Live End Cap Kit available for sealing Live Cables. - Conductive End Caps are available with Conductive Mastic.

Technical Specification		
Properties	Value	Standard
Physical		
Tensile Strength	12 N/mm (Mpa) (min.)	ASTM D638
Ultimate Elongation	350 % (min)	ASTM D638
Density	1.05± 0.2 gm/cm	ASTM D792
Hardness	45 ±10 Shore D	ASTM D2240
Water absorption	0.2 % (max.)	ASTM D570
Thermal		
Accelerated ageing	(120 C for 500 hrs)	ASTM D2671
Tensile Strength	11 N/mm (Mpa) (min.)	ASTM D638
Ultimate Elongation	300 % (min.)	ASTM D638
Low Temperature Flexibility	No Cracking	ASTM D2671
(-40°C for 4 hrs.)		
Heat Shock (250 C for 30 min.)	No cracking or flowing	ESI 09-11
Shrink Temperature	125°C	IEC 216
Continuous Temperature Limit	-40 to +100°C	IEC 216
Electrical		
Dielectric Strength	12 kV/mm.(min)	ASTM D149
Volume Resistivity	1 x 10 ¹⁴ Ohm.cm (min.)	ASTM D257
Dielectric constant	5 (max.)	ASTM D150

Selection Chart				All dimensions are in mm
Ds (Min.)	Df (Max.)	Ls (Min.)	Tf(±10%)	Cable Range
6	2	25	2.0	2.5 - 4
8	2	25	2.0	2.5 - 6
12	4	40	2.3	5 - 8
12	4	58	2.3	5 - 8
14	4	40	2.3	5 - 11
14	4	58	2.3	5 - 11
20	7.5	55	2.3	10 - 16
20	8	75	2.5	10 - 16
25	8	55	2.3	10 - 20
25	8	75	2.5	10 - 20
30	11	75	2.5	13 - 26
30	11	110	2.5	13 - 26
35	11	75	2.5	13 - 30
35	11	115	2.5	13 - 30
40	15	90	3.3	17 - 35
40	15	120	3.3	17 - 35
45	15	90	3.3	17 - 40
45	15	120	3.3	17 - 40
55	25	125	3.5	30 - 47
55	25	170	3.5	30 - 47
63	25	125	3.5	30 - 55
63	25	170	3.5	30 - 55
75	35	140	4.0	42 - 68
75	35	180	4.0	42 - 68
85	36	140	4.0	42 - 78
85	35	180	4.0	42 - 78
100	45	160	4.0	55 - 90
100	45	200	4.0	55 - 90
120	45	160	4.0	55 - 110
120	45	200	4.0	55 - 110
130	60	160	4.6	75 - 120
130	65	300	4.6	75 - 120
158	60	165	4.6	75 - 145
158	65	165	5.5	75 - 145
160	65	300	4.5	75 - 145
170	65	300	4.5	75 - 145
180	75	585	3.8	85 - 160
190	125	220	4.0	140 - 165
230	125	220	4.0	140 - 200
310	120	220	7.0	140 - 280
400	204	220	6.0	230 - 360
500	204	220	6.0	230 - 460

Several Products

Standard Cable Ties Tool



Strength Level	Cable Tie Width (mm)	Tension Strength Minimum (kg)
0	2,2	5,5
1	2,5	8
2	3,5	12,5
3	4,5	14,5



Part No.	Cable Tie Width Min Max		A	B	C	Weight (g)
PIN.003	2,2	4,8	160	130,0	20,3	300

Parameters	Values		
Width	2,5mm	3,5mm	4,5mm
Fastening angle	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$	vertical $\leq 30^\circ$ - horizontal $\leq 5^\circ$
Tensioning speed	< 50 mm/sec	< 50 mm/sec	< 50 mm/sec
Recommended Operating Temperature	23 °C \pm 10 °C	23 °C \pm 10 °C	23 °C \pm 10 °C
Recommended Operating Relative Humidity	50 % \pm 10 %	50 % \pm 10 %	50 % \pm 10 %
Pretensioning (setting)	from 30 to 40 N	from 50 to 70 N	from 80 N to 100 N
Recommended Storage Temperature	23 °C \pm 10 °C	23 °C \pm 10 °C	23 °C \pm 10 °C
Recommended Storage Relative Humidity	50 % \pm 10 %	50 % \pm 10 %	50 % \pm 10 %
Maximum shelf life after first bag opening	< 8 h	< 8 h	< 8 h

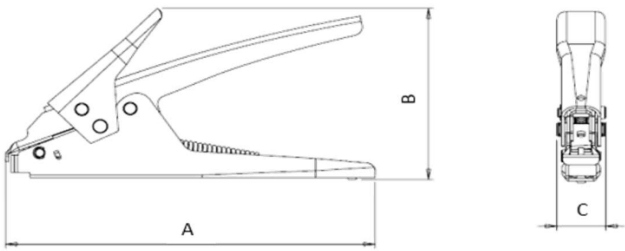
Cable tie gun type			
Tool code	Pretensioning (setting)		
PIN.003	0-1	2	3

Several Products

Standard Cable Ties Tool



Technical characteristics (at 23±3°C and 50±10% R.H.)	
Maximum tie width	9 mm
Minimum tie width	3,6 mm
Weight g/1 pcs.	320± 5% g
Material	Steel
Colour	White




Part No.	Dimensional characteristics (at 23±3°C and 50±10% R.H.)	
5400	A	192 mm
	B	98 mm
	C	25 mm

Protection, insulation and cable glands Sleeving



Product name	HELAVIA® standard sleeves	SILAVIA standard sleeves
Material	polychloroprene rubber quality 3490	silicone rubber quality 2412
Operating temperatures	-30 to +90°C (+110°C short time)	-80 to +200°C (+250°C short time)
Hardness shore A	40 ±5	40 ±5
Tensile strenght at break	>6,5 MPa	>7 MPa
Ultimate elongation	>500 %	>600 %
Tear strenght	>10 kN/m	>20 kN/m
Dielectric strenght	>13 kV/mm	18 kV/mm
Volume resistivity	4x10 ⁹ Ω.cm	10 ¹⁵ Ω.cm
Flame resistance	V0 UL94	-
Lubricated sleeves	until type A4	until type A4
Standard colour	black	natural, transparent, white, blue, green, yellow, brown, red, black and grey



Product name	Lubricant for sleeves HELAVIA® and SILAVIA	Sleeve expanders and application aids
Material	white mineral oil (silicone-free)	-
Characteristics	transparent, colourless and odourless	In order to use our SES sleeving and sleeves efficiently, a series of expanders and applications aids are available. The illustrations below indicate this versatile range.
Application / photos	LUB2 is recommended by SES-STERLING as a lubricant to facilitate the assembly of HELAVIA and SILAVIA rubber sleeves. The brush attached to the screw cap allows the right amount of lubricant to be delivered to ensure proper assembly using our sleeve clamps.	

Protection, insulation and cable glands Elastomer Sleeving



Product name	HELAVIA Neoprene sleeving	SILAVIA silicone rubber sleeving
Material	polychloroprene rubber quality 3490	silicone rubber quality 2412
Operating temperatures	-30 to +90°C (+110°C short time)	-80 to +200°C (+250°C short time)
Hardness shore A	40 ±5	40 ±5
Tensile strenght at break	>6,5 MPa	>7 MPa
Ultimate elongation	>500 %	>600 %
Tear strenght	>10 kN/m	>20 kN/m
Dielectric strenght	>13 kV/mm	18 kV/mm
Volume resistivity	4x10 ⁹ Ω.cm	10 ¹⁵ Ω.cm
Flame resistance	V0 UL94	-
Lubricated sleeves	until type A4	until type A4
Application	mechanical protection and dielectric insulating	-
Specifications	-	mechanical protection and dielectric isolation for high temperatures.
Standard colour	black, white, blue, green, yellow, orange, brown, red, purple, grey, pink, light blue, yellow/green	natural, transparent, white, blue, green, yellow, brown, red, black and grey

Protection, insulation and cable glands

Insulating sleeving and sleeves



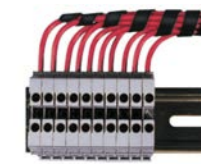
Product name	PLIO SUPER insulating sleeving	PLIO SUPER insulating sleeves
Material	PVC quality 9923	PVC quality 9923
Operating temperatures	-20 to +90°C	-20 to +90°C
Hardness shore A	90 ±5	90 ±5
Tensile strenght at break	20 MPa	20 MPa
Ultimate elongation	300 %	300 %
Dielectric strenght	20 kV/mm	20 kV/mm
Volume resistivity	3x10 ¹² Ω.cm	3x10 ¹² Ω.cm
Flame resistance	V2 UL94 (internal test)	V2 UL94 (internal test)
Specificity	Standards NF C 93 641; DIN 40.621 & VSM 11930	-
Specification / Available lenghts	good resistance to ozone, aging, acids and friction.	< 180mm for longer lengths please consult us
Application	protection and insulation.	
Standard colour / Semi-standard colours	black, white, blue, yellow, red, transparent green, orange, brown, purple, grey	black, white, blue, yellow, red, transparent green, orange, brown, purple, grey, green/yellow




Product name	PLIOPRENE TPE insultaing sleeveings	SILA SUPER insulating sleeving
Material	Polypropylene + EPDM irradiated	silicone
Operating temperatures	-40°C to +125°C +150°C (peak)	-50°C to +200°C +250°C (peak)
Hardness shore A	75 ±5	70 ±5
Tensile strenght	8 MPa	10 N/mm ₂
Ultimate elongation	> 400 %	350 %
Dielectric strenght	35 kV/mm	25 kV/mm
Volume resistivity	9x10 ¹⁴ Ωxcm	10 ¹⁵ Ω.cm
Flame resistance	V2 UL94 (internal test)	V2 UL94 (internal test)
Specifications / colour	FMVSS302 / ISO3795 DIN75200 / FAR25.853 halogen free. Black	halogen-free transparent/colourless

Protection, insulation and cable glands

Spiral tubing



Product name	PLIOSPIRE cable binding	
Materials	polyethylene	polyethylene (flame resistant)
Operating temperatures	-50 to +85°C	-50 to +75°C
Density	0,92	0,97
Tensile strenght	12 N/mm2	12 N/mm2
Ultimate elongation	550 %	400 %
Dielectric strenght	> 25 kV/mm	> 25 kV/mm
Flammability	-	V2 UL94
Specifications		some halogene
Standard colours	natural, red, orange, blue, yellow, grey, black	



Product name	PLIOSPIRE PVC
Material	PVC quality 9921
Operating temperatures	-15 to +80°C
Density	1,30
Tensile strenght	25 N/mm2
Ultimate elongation	300 %
Dielectric strenght	20 kV/mm
Standard colours	transparent, red, blue, yellow, white and black

Protection, insulation and cable glands

Braided sleeving

PET



PLOSIL PA

Product name	PLIOSIL-PET expandable braided sleeving	
Material	PET	PA6.6
Covering	≥ 70%	≥ 80%
Operating temperatures	-50 to +130°C	-55 to +135°C
Melting point	+260°C	+255°C
Flame resistance	self-extinguishing (V2 UL94)	self-extinguishing (V2 UL94)
Specifications	V2 UL94, EN 45545 NF F16-101 / F16-102, halogene free	V2 UL94, NF F16-101/ F16-102 halogene free
Applications	sleeving with an expansion ratio from 1 to 2 for general use. It has been developed for rail industry.	this sleeving has been specifically developed for aeronautic, space, automobile and rail industries
Standard colours	black and grey	black and grey



Product name	PLIOSIL-PET expandable braided sleeving (PET-V0)	Hotwire cutting machines (FILICUT)
Material / Time to heat	PBT	instant
Covering / Tension	≥ 75%	12V - 24W
Operating temperatures / Lenght of the hot wire	-50 to +150°C	150 mm
Melting point / Conform to norm	+225°C	NF EN 60335-2-45
Flame resistance	self-extinguishing (V0 UL94)	-
Specifications / Applications	V0 UL94	manual portable tool for occasional cut work. Heat is operator activated by trigger switch. Allows flat cut of sleeving up to 150mm wide.
Applications	used in the application that need V0 quality.	
Standard colours	Black and grey	-



Protection, insulation and cable glands

Braided sleeving



Product name	HSG 0	PLIOCUT-A
Time to heat	6 to 8 seconds	instant
Tension	230V - 60W	230V - 20W
Heating temperature/ Temperature of the wire	600°C	400°C
Lenght of the blades/ Lenght of the hot wire	according to the blade	100 mm
According to norm/ Specification	89/336/CEE 73/23/CEE	IEC-EN 61558-2-6
Application	manual portable machine for intermittent cutting of small series. Heat is operator activated by a trigger switch.	bench machine, for small and medium series of cut. Heating by switch. Allows flat cut of sleeving up to 100mm wide.



Product name	HSG	IRODA
Time of heat / Dimensions	6 to 8 seconds	11,5 x 8 x 2,5cm
Power/ Fuel	230V - 40W	Butane (not included)
Temperature of the wire / Hours of use	600°C	20 minutes per diposal lighter
Lenght of the hot wire	HSG 00 30 mm HSG-00-VW 60 mm	-
Application	bench machine, for large series of cut. The HSG 00 heats up continuously while the HSG-00-VW is equipped with a temperature regulator. The steel blade guarantees a longer lifespan.	flameless Heat Gun with Piezo electronic self-starting ignition system for expandable braided sleeving.

Protection, insulation and cable glands Polychloropr. rubber Moulded grommets



Product name	DU	DA
Material	EPDM	polychloroprene rubber
Colour	black	black
Operating temperatures	-40 to +100°C	-30 to +90°C
Tensile strenght at break	-	> 7 MPa
Ultimate elongation	> 400%	> 400%
Dielectric strenght	> 13 kV/mm	> 13 kV/mm
Resistance to ozone	very good	-
Specification	halogene free	-

HELAVIA® standard grommets DC-DE-DH in black polychloroprene rubber



HELAVIA standard grommets DC



Grommets with unequal sides series DC



Conical grommets series DE



Elongated grommets series DH

Protection, insulation and cable glands Polychloropr. rubber Moulded grommets



Product name	DG HELAVIA	15-2**
Material	polychloroprene rubber	polychloroprene rubber
Colours	black - grey (near RAL 7037)	black
Operating temperatures	-30 to +90°C	-30 to +90°C
Tensile strenght at break	7 MPa	> 7 MPa
Ultimate elongation	> 400 %	> 400 %
Dielectric strenght	> 13 kV/mm	> 13 kV/mm
Applications	designed to close off unused entries in panels, enclosures and housings of all types. Wires and conduits can pass through the membrane if required.	protection of cables in the passage of sheet steel, and protection against twisting.



Product name	DV	DX-M / DX-PG
Material	polychloroprene rubber	EPDM
Colours	black	black, light grey (RAL 7035)
Operating temperatures	-30°C to +90°C	-40°C to +110°C
Tensile strenght	> 8 MPa	-
Ultimate elongation	> 600 %	-
Dielectric strenght	> 13 kV/mm	-
Specification	-	IP 67 according to EN 60 529
Applications	for protection and strain relief, very effective when used with SES-QUICK cable ties, in the passages of boxes, of cupboards or crankcase, etc.	grommets, sealing for all exits of panels, enclosures and housings of all types, etc.

Protection, insulation and cable glands

TPE thermoplastic rubber moulded grommets



Product name	DK-DKF-DKP TPE	DG-TPE
Material	thermoplastic rubber mixture PP/EPDM	thermoplastic rubber
Colours	black	black - light grey (RAL 7035)
Operating temperatures	-50 to +125°C (+150°C short time)	-50 to +125°C
Hardness shore A	55 +/- 5	55 ± 5
Tensile strenght at break	> 4,5 MPa	> 4,5 MPa
Ultimate elongation	> 300 %	> 300 %
Dielectric strenght	35 kV/mm	35 kV/mm
Flame resistance	HB UL94	HB UL94 (internal test)
Applications	-	grommets with membrane allowing closure of unused entries. They ensure a semi-sealing againts dust when cables or conduits pass through their membrane.



Product name	DGX-TPE	DGX-MULTI TPE
Material	Thermoplastic Elastomer	Thermoplastic Elastomer
Colour	black - light grey (RAL 7035)	black - light grey (RAL 7035)
Operating temperatures	-50°C to +125°C	-50°C to +125°C
Protection	IP 67	IP 67
Applications	sealing grommet is very flexible, simple and quick to assemble without tools, even on curved surfaces. It adapts to the cable diameter and ensures its protection. It can be used as a stopper.	sealing grommet is very flexible, simple and quick to assemble without tools. Allow the passage of 3 cables while maintaining the seal. It adapts to the cable diameters and protects them. It can be used as a stopper.

Protection, insulation and cable glands

TPE thermoplastic rubber moulded grommets



Strain relief grommets
in black PLIOPRENE TPE



Boots in black PLIOPRENE TPE -
for female flag crimp terminals

Protection, insulation and cable glands

Mouldings in PVC



Product name	DK-DKF-DR-DKP PVC
Material	flexible PVC
Colours	black
Operating temperatures	-30 to +70°C
Hardness Shore A	55 ± 5
Tensile strenght at break	8 MPa
Ultimate elongation	> 250 %
Dielectric strenght	> 20 kV/mm
Specification	HB UL94



PLIO® standard grommets
DR-DKF-DKP
in flexible PVC black 9542



Product name	DO-PVC	DG-PVC
Material	flexible PVC	flexible polyvinyl chloride
Colours	black - grey	black - light grey - white
Operating temperatures	-30°C to +70°C	-30°C to +70°C
Hardness Shore A	55 ± 5	55 ± 5
Tensile strenght at break	8 MPa	8 MPa
Ultimate elongation	> 250 %	> 250 %
Dielectric strenght	> 20 kV/mm	> 20 kV/mm
Specification	HB UL94	HB UL94
Application	for flat wire protection.	closure of unused entries. They allow the passage of cables or conduits through the membrane by ensuring a dust free fit.



Protection, insulation and cable glands

Mouldings in PVC



Product name	DG-MS	DG-MT
Materials	TPE	TPE
Colour	light grey	light grey
Operating temperatures	-30 to +80°C	-40 to +80°C
Protection rating	IP 66 according to EN 60 529	IP 66 according to EN 60 529
Application	hexagonal membrane grommet with screw thread that allows single cables, flat cables or several cables of small diameters to pass through it.	round membrane grommet in TPE to clip in that allows single cables, flat cables or several cables of small diameters to pass through it.



Product name	PLIOFIX	PLIOCAP
Materials	TPE and PA	PE, PP and PA6.6
Colours	black - grey	black - grey
Operating temperatures	-20°C to +125°C	-50°C to +85°C (PE), -40°C to +85°C (PP), -40°C to +110°C (PA6.6)
Self-extinguishing	-	V2 UL94 (PA6.6)
Dielectric strenght	-	> 16 (PE), >20 (PP), 26 (PA6.6)
Protection rating	IP 65	-
Application	they allow the passage of cables or conduits through their membranes allowing a dust free fit. They combine the advantages of grommets and a gland. They are in particular compact parts offering ease of use and speedy assembly.	The grommets change angular holes into fully isolated clean and smooth openings. They isolate and protect electric cables passing through a wall. The general version (PC -U) allows cables from Ø 2,6 to 25,2 mm passing through it. The caps (PC -F) designed to close off unused entries. Simple, fast and safe use.

Protection, insulation and cable glands

Mouldings in PVC



Product name	FL13	FL21
Material frame	PP glass fibre reinforced	PP glass fibre reinforced
Material insert	TPE	TPE
Colour	light grey (RAL 7035)	light grey (RAL 7035)
Protection index	IP 65	IP 65
Operating temperatures	-20 to +125°C	-20 to +125°C
Certification	EN 60529:1991+A1 EN 60670-1:2005	EN 60529:1991+A1 EN 60670-1:2005
Applications	space saving wiring system very easy to mount for fast, discreet and aesthetic installation. Modular solution, adaptable to most needs, and evolving even after the installation (by changing the inserts). IP65 to ensure protection against dust and moisture.	space saving wiring system very easy to mount for fast, discreet and aesthetic installation. Modular solution, adaptable to most needs, and evolving even after the installation (by changing the inserts). IP65 to ensure protection against dust and moisture.



PLIO® strain relief grommets in flexible PVC



PLIO® strain relief bushes in flexible PVC

Protection, insulation and cable glands

Mouldings in PVC



Product name	DM-SES	PLIO-PVC
Material	polyamide 6	PVC
Colours / Standard colours	black - white	black, transparent, white, blue, green, yellow, orange, brown, red, violet, grey
Operating temperatures	-20 to +70°C	-25 to +75°C
Hardness Shore A	-	70 +/- 5
Tensile strenght at break	80 MPa	-
Ultimate elongation	> 50 %	350%
Dielectric strenght	60 kV/mm	>20 kV/mm
Flame resistance	V2 UL94 (internal test)	HB UL94



Product name	PLIO	PLIO BA
Materials	PE, PA6, PA6.6, PP	polypropylene
Colours / Standard colours	natural (PE), natural (PA6), natural (PA6.6), natural or black (PP)	white, blue, green, yellow, orange, brown, red, black, grey, pink, lila, natur
Operating temperatures	-50 to +55°C (PE), -20 to +70°C (PA6), -40 to +110°C (PA6.6), -20 to +65°C (PP)	-25°C to +90°C (+120°C short time)
Ultimate elongation	500 % (PE), > 50 % (PA6), 300 % (PA6.6), >150 % (PP)	30 %
Dielectric strenght	60 kV/mm (PA6), 26 kV/mm (PA6.6), 50 kV/mm (PP)	> 20 kV/mm
Flame resistance	V2 UL94 (PA6), V2 UL94 (PA6.6)	-
Application	-	our PLIO-BA boots can be applied over precrimped terminals, therefore they can be used with confidence on automatic application machines.

Protection, insulation and cable glands

Grommet strip and PLIO tapes



Product name	PLIOBORD for indoor	PLIOBORD for outdoor
Materials	polyethylene (PE), polyethylene non flammable (PE AF)	flexible PVC
Colours	natural (PE), white (PE AF)	black
Operating temperatures	-50 to +85°C (PE), -50 to +75°C (PE AF)	-20 to +90°C
Hardness Shore A	-	90 +/- 5
Tensile strenght at break	> 12 MPa (PE), > 10 MPa (PE AF)	20 MPa
Ultimate elongation	> 550 % (PE), > 600% (PE AF)	300 %
Dielectric strenght	60 kV/mm (PE), 60 kV/mm (PE AF)	20 kV/mm
Chemical resistance	very good (PE), very good (PE AF)	-
Flame resistance	none (PE), V2 UL94 (PE AF)	V2 UL94
Application	protection of cable and conduits from sharp edges in sheet metal work or in panels. Has the advantage of being adaptable to sheet thicknesses from 1 to 4 mm.	used for the protection of outside sides until 1,2 mm thickness.



Product name	SL-303	A-720
Material	silicone rubber	cross-linked polyolefin
Colours	black - red	black
Operating temperatures	-70°C to +250°C	-55°C to +105°C
Shrink temperature	-	> 130°C
Ultimate elongation	> 400 %	-
Dielectric strenght	16 kV/mm	30 kV/mm
Volume resistivity	10 ¹⁵ Ω.cm	-
Specification	After rolling up on the object, the ribbon is welded onto itself by vulcanization and creates a compact and homogeneous insulation.	Heat-shrinkable tape forming on the object which it covers a continuous wall, insulating and tight.

Cable marking

Code marker cards



Product name	E8	EV
Material	TEV vinyle covered cotton	PVC transparent
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short term)	-20 to +70°C
Temperatures of application	+10 to +40°C	+5 to 40°C
Adhesive	special thermal setting adhesive	rubber
Adherence on steel	2,5 N/cm	> 3 N/cm
Tensile strenght at break	80 N/cm	-
Tensile strenght	-	25 N/cm
Dimension of the card	255 x 30 or 40 mm	255 x 82 mm
Print height	1,6 mm	-
Strip number	150 to 156 strips	-
Strip width	3 mm	-
Strip lenght	8 and 12 mm (for wires up to Ø 2,5 mm), 14 mm (for wires up to Ø 4 mm), 19 mm (for wires up to Ø 6 mm), 38 mm (for wires up to Ø 12 mm) 92 mm (for wires up to Ø 28 mm)	-
Strip thickness	0,30 mm	0,15 mm
Standard colour	white	white
Packaging	10 cards same legend (for smaller quantities an extra charge will be applied).	1 card
Specification	-	<ul style="list-style-type: none"> - Marking by hand (with Nylon-point pen, biro or pencil). - Self protection by foil strip. - Resistant to oils and light solvents. - Possibility of LASER marking for a readable and indelible marking (please contact us).

Cable marking

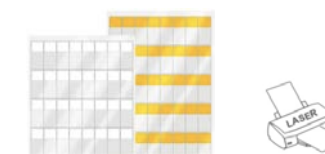
Code marker cards



Product name	SM - SMR	TAB
Material	TEV vinyl-coated cloth	PVC transparent
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short term)	-30 to +80°C
Application temperatures	+10 to +40°C	+5 to 40°C
Adhesive	special rubber, thermosetting	acryl
Adherence to steel	2,5 N/cm	> 4 N/cm
Tensile strenght	80 N/cm	-
Strip dimensions	- SM: 38 x 5 mm (for cables Ø < 12 mm) - SMR: 32,5 x 5 mm (for cables Ø < 9,5 mm)	-
Ultimate elongation	-	150 %
Strip thickness	300 µm	120 µm
Pages per book	10	-
Standard colour	white	white
Packaging	1 book	1 card
Legend	6 or 7 repeated legends are printed on each strip. The last one can be removed to mark the corresponding terminal.	-
Specification	-	- Marking by hand. - Self protection by foil strip. - Resistant to oils and light solvents.

Cable marking

Code marker cards



Product name	SES-EV	SES-EV
Material	PVC	PET
Operating temperatures	-30 to +80°C	-40 to +125°C
Application temperatures	+5 to +40°C	+10 to 40°C
Adhesive	acryl	acryl
Adherence to steel	> 4 N/cm	> 3 N/cm
Ultimate elongation	150 %	-
Strip thickness	110 µm	80 µm
Dimension of the sheet	-	A4 (210 x 297 mm)
Colours	-	white - yellow
Specification	- Marking by hand. - Self protection by foil strip. - Resistant to oils and light solvents.	- Marking by laser printer. - Self protection by foil strip. - Resistant to oils and light solvents.



Product name	M-MARKERS
Material	flexible PVC
Colour	white
Operating temperatures	-20 to +90°C
Hardness Shore A	80 ± 5
Tensile strenght at break	18 MPa
Ultimate elongation	250 %
Dielectric strenght	>20 kV/mm
Flame resistance	V0 UL94
Applications	Marking of wire and cables from 2,8 to 7,9 mm ext. Ø. Used with our self-protected EV-labels or all other labels, these sleeves allow a fast and reusable cable marking.

Cable marking

Code marker label cards

Product name	S9, S13, S19, S38, S58 and S92
Material	TEV vinyl covered cotton
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short duration)
Application temperatures	+10 to +40°C
Adhesive	special thermal setting adhesive
Adherence to steel	2,5 N/cm
Tensile strenght at break	80 N/cm
Dimension of the card	255 x 48 mm
Print height	6,3 mm
Quantity strips per card	100 to 152 (according to legend)
Strip size	6 to 9 x 9 mm (according to legend)
Strip thickness	0,30 mm
Standard colours	white - yellow
Pack	10 cards same legend (for smaller quantities an extra charge will be applied).



S9



S13



S19



S38



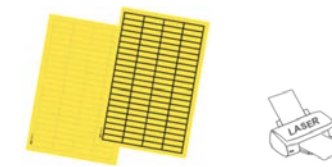
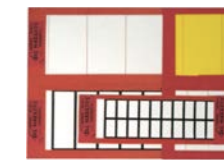
S58



S92

Cable marking

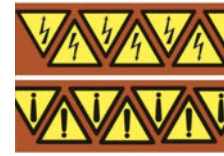
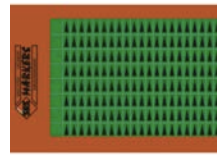
Code marker label cards



Product name	SPOT-IT (Code marker cards with strips SPOT-IT)	SPOT-IT (Sheets with strips SPOT-IT, LASER printable)
Material	TEV vinyl-coated cloth	TEV vinyl-coated cloth
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short term)	-30 to +80°C
Application temperatures	+10 to +40°C	+10 to +40°C
Adhesive	special rubber, thermosetting	acrylic
Adherence to steel	2,5 N/cm	4,5 N/cm
Tensile strenght at break	80 N/cm	-
Dimension of the card	S19: 255 x 48 mm S38: 255 x 73 mm S58: 255 x 105 mm	-
Strip thickness	0,30 mm	-
Standard colour/s	white - yellow	yellow
Specification	available with or without frame. For an individual marking by hand (with nylon point pen, ball point pen, or pencil).	available with or without frame. For a LASER or an individual marking by hand (with nylon point pen, ball point pen, or pencil).

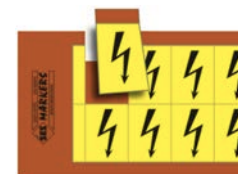
Cable marking

Code marker label cards



Product name	SPOT-IT (Code marker cards SES-MARKERS with strips SPOT-IT, for printed circuits boards)	SPOT-IT (Code marker cards SES-MARKERS with triangular strips SPOT-IT, Electrical danger)
Material	TEV vinyl-coated cloth	TEV vinyl-coated cloth
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short term)	-30 to +105°C (class A), -40 to +150°C (short term)
Application temperatures	+10 to +40°C	+10 to +40°C
Adhesive	special rubber, thermosetting	special rubber, thermosetting
Adherence to steel	2,5 N/cm	2,5 N/cm
Tensile strenght at break	80 N/cm	80 N/cm
Dimensions of the strip	2,45 x 4,75 mm	-
Dimensions of the card	255 x 48 mm	-
Strip thickness	0,30 mm	0,30 mm
Standard colours	white - blue - green - yellow - red	yellow
Pack	1 card	-
Specification	used for the location on printed circuits.	used for the warning of the electric dangers and general danger.

Product name	SPOT-IT (Code marker cards SES-MARKERS with strips SPOT-IT, high tension flash symbol)
Material	TEV vinyl-coated cloth
Operating temperatures	-30 to +105°C (class A), -40 to +150°C (short term)
Application temperatures	+10 to +40°C
Adhesive	special rubber, thermosetting
Adherence to steel	2,5 N/cm
Tensile strenght at break	80 N/cm
Strip thickness	0,30 mm
Standard colours	yellow
Specifications	used for the warning of the electric dangers.



Cable marking

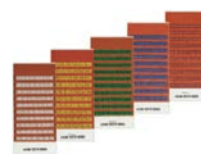
SES markers cassettes



Product name	SES - MARKERS
SES-MARKERS wire marker cassettes	
Material	polypropylene (PP)
Capacity	5 marker rolls
Dimensions	L 50 mm - Ø 30 mm
Weight	24 g (with 5 marker rolls)
Tapes in rolls	
Material	Polyester (PET)
Lenght	2,70 m
Width	5,5 mm
Number of legends	600 per roll (approx.)

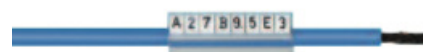
Cable marking

PLIOGRAPH+ and PLIOGRAPH 2000 marker system



Product name	PLIOGRAPH PLUS markers in PVC Type 150	PLIOGRAPH PLUS markers in PVC Type 200
Number of markets per booklet	150	200
Marker width	2,8 mm	2,1 mm
Marker height	3,8 mm	3,8 mm
Print height	2,1 mm	2,1 mm

Carrier - length 25 mm
8 markers
type 150



Carrier - length 25 mm
11 markers
type 200



Product name	PLIOGRAPH 2000 markers in PA6 Marker boxes	LMB (Labels PLIOGRAPH PLUS for carriers LASER printed)
Number of markets per string	25 markers	200
Number of markets per box	16	2,1 mm
Print height	2 mm	3,8 mm
Material	-	PET
Operating temperatures	-	-20 to +60°C
Label thickness	-	0,195 mm
Standard colours	-	white - yellow
Specification	-	- printed on a LASER printer - double sided printing: 1 side colour white and 1 side colour yellow

Cable marking

PLIOGRAPH+ and PLIOGRAPH 2000 marker system

Accessories for mounting and removing PLIOGRAPH PLUS for PLIOGRAPH PLUS and PLIOGRAPH 2000 markers



- Identification mounting tools with concave tab.
- 4 kinds of mounting tools :
- with a 17 mm prong, to mount up to 5 markers.
 - with a 25 mm prong, to mount up to 8 markers.
 - with two 17 mm prongs, for simultaneous mounting of 2 identical markers.*
 - with two 25 mm prongs, for simultaneous mounting of 2 identical markers.
- * for PLIOGRAPHPLUS markers only Demounting tool used to remove markers for modifications.



PLIOGRAPH PLUS plate for PLIOGRAPH PLUS marker distribution

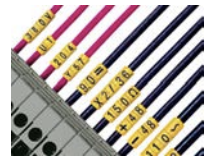
- Empty plaque for marker distribution
- One plaque is available for 10 x 4 rows - or 20 x 2 rows - of markers.
- i.e 600 markers as total possibility.



PLIOGRAPH 2000 plate for PLIOGRAPH 2000 marker distribution

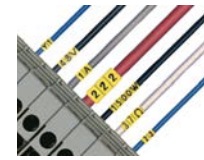
- Empty plaque for marker distribution
- One plate is available for 23 strings of 25 markers. Or a total of 575 markers.

Cable marking Polychloroprene wire markers



Product name	HELAVIA - TWIN	HELAVIA LASER - ONE
Material	polychloroprene	polychloroprene
Standard colour	yellow	yellow
Temperature of use	-40 to +90°C	-40 to +90°C
Shore hardness A	40 ±5	40 ±5
Resistance to light to ozone to petrol to tearing	good good good good	good good good good
Flame resistance	V0 UL94	V0 UL94
Dielectric strenght	> 13 kV/mm	> 13 kV/mm
Specifications	black print on both sides protected by a coat	LASER engraved on 1 side
Application	the markers give a neat professional appearance. Due to their great elasticity and thin wall, they close fit the cable and remain firmly in position.	LASER-ONE marking rings allow cable identification prior to connection. The identification is clean, indelible and unalterable.

Cable marking Polychloroprene wire markers



Product name	HELAVIA - RELIEF	SILAVIA - TWIN (markers semi-cut)
Material	polychloroprene	silicone
Standard colour	yellow	yellow
Temperature of use	-40 to +90°C	-80 to +200°C
Shore hardness A	30 ±5	40 ±5
Resistance to light to ozone to tearing	good good good	good very good -
Dielectric strenght	> 13 kV/mm	18 kV/mm
Specification	HB UL94 - FMVSS302	-
Specifications	raised legends on 1 side - black-coloured	black print on both sides protected by a coat
Application	HELAVIA markers are moulded with raised legends. Legends can even be read when they are covered with dust deposits, ink, coloured liquids or other products.	the markers give a neat professional appearance. Due to their great elasticity and thin wall, they close fit the cable and remain firmly in position.

Product name	SILAVIA LASER-ONE
Material	silicone
Standard colour	yellow
Temperature of use	-80 to +200°C
Shore hardness A	40 ±5
Resistance to light to ozone	good very good
Dielectric strenght	18 kV/mm
Specifications	laser engraved on 1 side
Application	The SILAVIA LASER-ONE marking rings allow cable identification prior to connection, in extreme temperature environments or for outdoor applications. The identification is clean, indelible and unalterable.



Cable marking Plio PVC wire markers



Product name	PLIO-V-MARKERS	PLIO-M-MARKERS
Material	flexible PVC	flexible PVC
Operating temperatures	-20 to +90°C	-20 to +90°C
Hardness Shore A	80 ± 3	80 ± 3
Tensile strenght at break	18 MPa	18 MPa
Ultimate elongation	250 %	250 %
Dielectric strength	> 20 kV/mm	> 20 kV/mm
Flame resistance	V0 UL94	V0 UL94
Application	to identify wires and cables of o.d. 0,6 to 8 mm.	to identify wires and cables of o.d. 0,6 to 8 mm.

Cable marking Plio PVC wire markers



Product name	PLIO M-65	PLIO M-***-M2
Material	PVC	PVC
Operating temperatures	-20 to +90°C	-20 to +95°C
Colour	-	yellow
Hardness Shore A	80 ± 3	95 ± 5 (Shore A)
Tensile strenght at break	18 MPa	20 MPa
Ultimate elongation	250 %	300 %
Dielectric strength	> 20 kV/mm	-
Flame resistance	V0 UL94	V0 UL94 M2 CSTB
Pack	reels with 500 markers	-
Application	to identify PLIO carriers.	for the identification of large cables and tubes.



Product name	PLIOSTRAP-8	PLIO M-***
Material	strapping: PVC marking ring: PVC locking stud: PS cable tie: PA 6.6	PVC and PE
Operating temperatures	-20 to +60°C	-20 to +95°C (PVC), -50 to +85°C (PE)
Shore hardness	-	95 ± 5 (Shore A, PVC), 44 (Shore D, PE)
Tensile strenght at break	-	20 MPa (PVC), 16 MPa (PE)
Ultimate elongation	-	300 % (PVC), 550 % (PE)
Applications	system for the identification of cables in the field of lighting, light signals and various other installations of outdoor space supplied at low voltage.	for the identification of large cables and tubes.



Product name	PLIO M-65 M2	Marker carriers PLIO M-*** PP
Material	flexible PVC	PP
Colours	-	white - black
Operating temperatures	-20 to +90°C	-20 to +90°C
Hardness Shore A	80 ± 5	-
Tensile strenght at break	18 MPa	22 MPa
Ultimate elongation	280 %	-
Dielectric strength	> 20 kV/mm	-
Flame resistance	V0 UL94 M2 CSTB	V0 UL94
Pack	reels with 500 markers	-
Application	for a use on PLIO M2 carriers.	identification in halogen free applications requiring high fire resistance (ex: tunnel, rolling material, rail ...).

Cable marking

Plio PVC wire markers



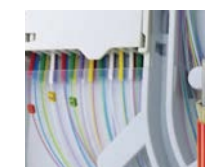
Product name	Markers PLIO M-65 TPU	PLIO PP MDE
Material	TPU	PP with metal particles
Operating temperatures	-30 to +90°C	-20 to +70°C
Colour	white - yellow	metal blue
Chemical resistance	-	good resistance to acids, bases and detergents.
Hardness Shore A	77 ± 5	-
Tensile strenght at break	30 MPa	-
Ultimate elongation	600 %	-
Flame resistance	V0 UL94	-
Pack	reels with 500 markers	-
Specifications	-	halogen free adapted to the success of a HACCP* processes.
Application	with our PP marker carriers or directly on cables with Ø 4,2 to 6,6 mm. In halogen free applications requiring a high flame resistance (ex: tunnel, rolling material, rail ...).	The presence of metal particles in the identification carriers or markers allows easy detection thanks to any metal detector. This identification system is thus used in electrical equipment boxes or chains of pro- duction in food and pharmaceutical industries to limit the risks of product contamination.

Cable marking

Plio PVC wire markers



Product name	PLIOTEX-V plus	PLIOFAST
Material	flexible PVC	flexible PVC quality 9940
Operating temperatures	-20 to +90°C	-20 to +90°C
Hardness Shore A	85 ± 3	90 ± 5
Tensile strenght at break	20 MPa	25 MPa
Ultimate elongation	300 %	240 %
Dielectric strength	-	20 kV/mm
Density	1260 kg/m ³	-
Volume resistivity	-	3 x 10 ¹² Ω.cm
Print height	-	3 mm
Flame resistance	V0 UL94	-
Application	to identify wires and cables of o.d. 1 to 25 mm.	identification of cables from 0,75 to 25 mm ₂ .

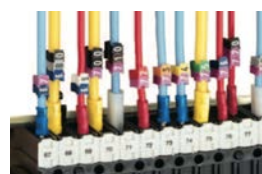


Product name	OPTO-MARKERS TC-9	OPTO-MARKERS TC-27
Material	PVC	flexible PVC quality 9732
Operating temperatures	-20 to +90°C	-20 to +90°C
Hardness Shore A	80 ± 3	80 ± 3
Tensile strenght at break	18 MPa	18 MPa
Ultimate elongation	250 %	250 %
Dielectric strength	> 20 kV/mm	> 20 kV/mm
Flame resistance	V0 UL94	V0 UL94
Special print	please consult us.	please consult us.
Application	identification of fibre optic from 0,2 to 0,4 mm ext. Ø with double sided print (except black markers).	identification of fibre optic from 1,6 to 2,5 mm ext. Ø with double sided print (except black markers).

Cable marking / Plio PVC wire markers



Product name	PLIOGRIP	PLIO SNAP+
Material	POM	POM
Operating temperatures	-40 to +90°C	-40 to +90°C
Tensile strenght at yield	54 N/mm ₂	45 MPa
Elongation at break	30 %	40 %
Dielectric strength	28 kV/mm	20 kV/mm
Elasticity	2100 N//mm ₂	1800 MPa
Flame resistance	HB UL94	HB UL94
Application	applied by clipping direct to wires and cables of sections 0,15 - 6 mm ₂ before or after connection.	marking of cables on connector block after connection, even in difficult places.



Product name	PLIOCLIP	HELAVIA® LASER
Material	Polyamide 6.6	polychoprene rubber
Operating temperatures	-30 to +100°C	-30 to +90°C
Shore hardness A	-	40 + 5
Tensile strenght at yield	65 N/mm ₂	-
Elongation at break / Ultimate elongation	300 %	> 600 %
Elasticity / Resistance to ozone	1300 N//mm ₂	good
Dielectric strength	26 kV/mm	> 13 kV / mm
Flame resistance	V2 UL94	V0 UL94
Application	Applications: marking of wires and cables of Ø 2,2 to 6 mm (sections 0,5 to 6 mm ₂) before or after connection. This marking system is equipped with a security locking equivalent to that of a closed ring.	HELAVIA® LASER marker sleeves allow aesthetic and space-saving identification thanks to their thin wall which makes them integral with the cable. LASER engraved, they guarantee high quality, indelible and tamper-proof marking, resistant to abrasion, harsh environments and weather conditions.

Cable marking / Plio PVC wire markers



Product name	SILAVIA LASER	PLIO
Material	silicone rubber	PVC
Standard colours	-	white (001) - blue (002) yellow (004) - red (007)
Operating temperatures	-80 to +200°C	-
Temperatures of use	-	-20 to +90°C
Shore hardness A	40 + 5	90 ± 5
Tensile strenght at break	-	20 N/mm ₂
Ultimate elongation	> 500 %	300 %
Dielectric strength	18 kV/mm	20 kV/mm
Resistance to light to ozone	good very good	good good
Minimum available	-	250 pieces per type and print
Specification	halogene free	-
Application	in addition to its good elasticity, silicone rubber is characterised by its temperature resistance and excellent resistance to ozone for applications subject to high temperatures or outdoors.	-

Cable marking / Plio PVC wire markers



Product name	PLIOFINE B-EX / PLIO-R (shrink ratio 2/1 or 3/1)	Printed boots
Material	cross linked Polyolefine or PVC	PVC
Printable sleeving	Ø 1,6 to 32 mm before shrinking for cut sleeves Ø 3,2 to 12,7 mm before shrinking for pre-cut sleeves	-
Print	in 1 or several lines	-
Minimum	100 identical sleeves	-
Specifications	Print of non standard signs, logos and other graphics: extra charge depending on price list (0357 0904 000). Put into action according to the price list (0357 9999 000)	-
Operating temperatures	-	-25 to +75°C
Hardness Shore A	-	70 ± 5
Ultimate elongation	-	350 %
Dielectric strength	-	> 20 kV/mm
Flame resistance	-	HB UL94
Application	-	for the insulation and the marking of crimp terminals.
Minimum quantity	-	printing on 1 side upon request: alphanumeric characters, symbols, other qualities (PE or PA). Please contact us.

Cable marking / Plio PVC wire markers



Product name	PLIO® carriers	PLIO® carriers
Material	PVC flame resistant PP flame resistant	flexible PVC (quality 9920)
Operating temperatures	-20 to +90°C (PVC flame resistant) -20 to +90°C (PP flame resistant)	-20 to +90°C
Specifications	V0 UL94 (PVC flame resistant) V0 UL94 halogen free (HF) (PP flame resistant)	V0 UL94
Applications	our carriers are designed to respond to the need for speed of application, retro-marking, larger diameter cables and other applications. Laser engraving guarantees a high-quality marking that is resistant to abrasion and environmental influences.	-



Product name	INOX laser	INOX embossed
Material	stainless steel 316	stainless steel 316
Operating temperatures	-80 to +500°C	-80 to +500°C
Specifications	good resistance to acids and chemicals, not flammable, excellent resistance to aging, unchanging	good resistance to acids and chemicals, not flammable, excellent resistance to aging, unchanging
Application	for identifying cables and tubes in extreme conditions, use in harsh environments, corrosive atmospheres or high level of fire resistance • Engraving from computer files. • Engraved identification, indelible, proof and permanent.	for identifying cables and tubes in extreme conditions, use in harsh environments, corrosive atmospheres or high level of fire resistance. • Embossing from computer files. • Identification in relief indelible, proof and permanent.

Cable marking / Plio PVC wire markers



Product name	HZ-2 (Hot printing unit)	TP15 / TP10
Activation	manual	by pneumatic pedal with delay and pressure regulation. Pressure: 7 bar.
Cable diameter	cable Ø 1,5 to 25 mm maxi.	cable Ø 1 to 7 mm (TP15) cable Ø 8 to 12 mm (TP10)
Print height	1,5 to 2,3 mm up to max. 10 wheels	1,2 to 2,3 mm (TP15) 2,5 to 4 mm (TP10)
Quantity of printed wheels	-	15 wheels maxi. (TP15) 10 wheels maxi. (TP10)
Pack	1 complet without wheel	-
Specification	-	bench hot printing unit for small and medium series, providing a legible, durable and resistant marking.
Applications	mobile hot printing unit for wiring assembly points, difficult places of access (electrical equipment box...), for marking of connected cables...	-



Product name	SES-PREMO
Dimension of the press	207,5 x 152 x 140 mm
Weight	4,480 kg
Application	Designed for the marking of CH-M plates for the identification of cables, conduits and posts, both in outdoor and underground, particularly in the field of telecommunications.

Cable marking / Plio PVC wire markers



Product name	PLIOSCRIB M-1Std.III	PLIOSCRIB M-1ProV
Weight	2 kg	2 kg
Dimensions (W x L x H)	300 x 250 x 85 mm	300 x 250 x 85 mm
Printing speed	25 mm/s	40 mm/s
Resolution	300 x 300 dpi	300 x 300 dpi
Character sizes	2 - 3 - 6 mm	1,3 - 2 - 2 - 3 - 6 mm
Number of lines	2 lines	3 lines
Print data	approx. 2500 characters	approx. 5000 characters
File storage	7500 characters	60000 characters
PC connectivity	no	USB 2.0 interface
Supported OS	-	Windows 7 - 8 - 8 - 8.1 - 10
Supplied with	1 power cable 1 soft case 1 guide for profiles and sleeves 1 black printing ribbon (40 m)	1 power cable 1 soft case 1 software M-1Pro PC 1 USB connection with its cable 1 guide for profiles and sleeves 1 black printing ribbon (40 m)

Fixations Cable Trunking



Product name	GN-A6/4 LF	GN-HF-A6/4
Material	Rigid PVC quality 9051 LF	PC/ABS
Colour	grey RAL7030	light grey RAL7035
Operating temperatures	-5 to +65°C	-25 to +90°C
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Dielectric strength	15kV/mm	35kV/mm
Flame resistance	V0 UL94	V0 UL94
Specification/s	DIN 5510-2	NF F 16-101/102, DIN 5510-2, EN 45545-2, halogene free
Standard length	2 meters	2 meters
Double sided adhesive	upon request	upon request
Minimum delivery	1 complete packing (with lids)	1 complete packing (with lids)



Product name	GN-A6/4 blue	GF-DIN-A7/5
Material	rigid PVC quality 9051 LF	Rigid PVC quality 9051 LF
Colour	light blue, RAL 5015	grey RAL7030 - black
Operating temperatures	-5 to +65°C	-5 to +65°C
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Dielectric strength	15kV/mm	15kV/mm
Flame resistance	V0 UL94	V0 UL94
Standard length	2 meters	2 meters
Double sided adhesive	upon request	upon request
Minimum delivery	1 complete packing (with lids)	1 complete packing (with lids)
Application	integrally safe areas.	-

Fixations Cable Trunking

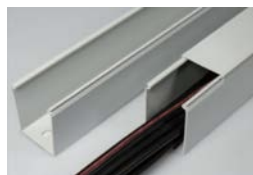


Product name	GF-DIN-SH-A7/5	GF-DIN-C-A12/8
Material	PC/ABS	Rigid PVC quality 9051 LF
Colour	light grey RAL7035	grey RAL7030 - black
Operating temperatures	-25 to +90°C	-5 to +65°C
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Dielectric strength	35kV/mm	15kV/mm
Flame resistance	V0 UL94	V0 UL94
Specification/s	EN 45545-2 NF F16-101/102 - DIN 5510-2 halogene free	-
Standard length	2 meters	2 meters
Double sided adhesive	upon request	upon request
Minimum delivery	1 complete packing (with lids)	1 complete packing (with lids)

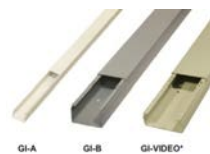


Product name	GF-A12/8	GF-DIN-PPDA
Material	rigid PVC quality 9051 LF	Rigid PVC quality 9051 LF
Colour	grey RAL7030	grey RAL7030
Operating temperatures	-5 to +65°C	-5 to +65°C
Density	1,56	1,56
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Dielectric strength	15kV/mm	15kV/mm
Specifications	V0 UL94 CSTB:M2	V0 UL94 CSTB:M2
Standard length	2 meters	2 meters
Double sided adhesive	upon request	upon request
Minimum delivery	1 complete packing (with lids)	1 complete packing (with lids)
Applications	used with cable of large diameter	-

Fixations Cable Trunking



Product name	GN-S LF	GN-HF-S
Material	Rigid PVC quality 9051 LF	PC/ABS, halogen free
Colour	grey RAL7030	light grey RAL7035
Operating temperatures	-5 to +65°C	-25 to +90°C
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Density	1,56	-
Dielectric strength	15kV/mm	35kV/mm
Specification/s	V0 UL94 DIN 5510-2 S3, SR1, ST2	V0 UL94 NF F 16-101/102 : I3/F2 DIN 5510-2 : S4-SR2-ST2 EN 45545-2 : R22 HL3, R23 HL3
Standard length	2 meters	2 meters
Double sided adhesive tape	on request	on request
Minimum quantity	1 complete pack (incl. lids)	1 complete pack (incl. lids)



Product name	GF-DIN-SH-S	GI
Material	PC/ABS, halogen free	PVC quality 9051 LF
Colour	light grey	white cream (RAL 9001) grey (RAL 7030)
Operating temperatures	-25 to +90°C	-5 to +65°C
Density	-	1,56
Volume resistivity	10 ¹⁵ Ω.cm	10 ¹⁵ Ω.cm
Dielectric strength	35kV/mm	15kV/mm
Specifications	V0 UL94 NF F 16-101/102 : I3/F2 DIN 5510-2 : S4-SR2-ST2 EN 45545-2 : R22 HL3, R23 HL3	V0 UL94
Standard length	2 meters	2 meters
Double sided adhesive tape	on request	on request
Minimum quantity	1 complete pack (incl. lids)	1 complete packing (with lids)

Fixations Cable Trunking



Product name	GI-M	GMF - FXD
Material	rigid PVC modified choc	polypropylene, quality flame resistant
Colour	white (RAL 9001)	light grey RAL 7035
Operating temperatures	-20 to +60°C	-40 to +70°C (fixing with screw) -40 to +60°C (fixing with adhesive tape)
Volume resistivity	10 ¹⁴ Ω.cm	-
Density	1,53	-
Dielectric strength	15kV/mm	-
Specification/s	V0 UL94	V2 UL94 halogen-free
Standard length	2 meters	-
Minimum quantity	1 complete pack (with hinged lid)	-
Application	-	PLIOFLEX is a flexible cable trunking system for use in control panels, distribution boards, or in difficult to reach areas.



Product name	XE		PLIOLINE GV
Material	polyamide 6	polypropylene	rigid PVC modified choc, quality 9057
Colour/s	natural	black	-
Operating temperatures	-20 to +85°C	-20 to +65°C	-20 to +60°C
Density	1,13	0,90	-
Volume resistivity	10 ¹³ Ω.cm	10 ¹⁶ Ω.cm	10 ¹⁴ Ω.cm
Dielectric strength	> 20 kV/mm	> 20 kV/mm	15kV/mm
Flame resistance	-		V0 UL94
Specifications	-		Complies with EDF HN 60 S 02 technical specification. UV and weather resistant. Impact resistant according to HN 60-E-03. Colour grey according to norm NF X 08-002/A640 and near RAL 7001.
Minimum quantity	1 complete pack		-

Fixations Cable Trunking



Product name	AP 4	AA 45
Material	PVC	PVC
Colour	grey	grey and light grey
Operating temperatures	-20 to +60°C	-20 to +60°C
Flame resistance	V0 UL94	V0 UL94
Application	profile used for switch boards and panels, specially adapted for assembling two protection screens.	cover profile for switch boards and electrical panels.

SES cutting tool
special for conduit trunking



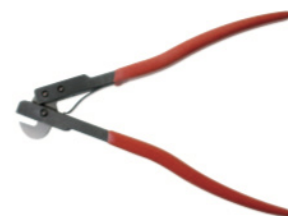
DC 125 cutter for trunking
0518 0960 000
C3/7-01



DX-110 cutter for trunking
0518 0918 000
D4/6-01



DK-55 cutting
tool 0518 0956
000 D4/6-01



DK-55 cutting tool
0518 0956 000
D4/6-01

Fixations Cable Clamps



Product name	SES-CM	SES-CX
Material	polyamide 6	polyamide 6
Colour	black	black
Operating temperatures	-20 to +70°C	-40 to +130°C
Tensile strength at break	-	45 MPa
Capacity	3 to 7,5 mm according to type	-
Resistance	-	to ageing, ozone, UV radiation and corrosion.
Flame resistance	V2 UL94	V2 UL94
U.V. resistance	good	-
Application/s	adjustable miniature cable clamps which are ideal for fixing cables.	SES-CX moulded "P" clips can clamp a wide range of cable diameters as they are equipped with adjustable slots.



Product name	SES-CX rubber sleeved	SES-CX with foam coating
Material	polyamide 6	polyamide 6
Colour	black	black
Sleeving / Coating	polychloroprene	polychloropren foam
Operating temperatures	-30 to +90°C	-40 to +70°C
Tensile strength at break	45 MPa	45 MPa
Resistance	to ageing, ozone, UV radiation and corrosion.	to ageing, ozone, UV radiation and corrosion.
Flame resistance	V2 UL94	V2 UL94
Dielectric strength	>13 kV/mm	>13 kV/mm
Application/s	SES-CX moulded "P" clips can clamp a wide range of cable diameters as they are equipped with adjustable slots. The rubber sleeve will be found indispensable for clamping sensitive equipment or elements subjected to vibration.	SES-CX moulded "P" clips can clamp a wide range of cable diameters as they are equipped with adjustable slots. They will be found indispensable for clamping sensitive equipment or elements subjected to vibration.

Fixations Cable Clamps



Product name	SES-CV	SES-CN	SES-SP
Material	hard-PVC	polyamide 6	polyamide 6.6
Colour	grey	black	black
Operating temperatures	-20 to +65°C	-40 to +130°C	-40 to +80°C
Adhesive	-		adhesive foam protected by release paper.
Resistance	to ageing, ozone, UV radiation and corrosion.		-
Flame resistance	V2 UL94	HB UL94	V2 UL94
Dielectric strength	35 kV/mm	60 kV/mm	550 kV/mm
Application/s	preformed clips for everyday use for cables or bundles.		clamp with adhesive base with clip for closing, for fixing of cables. It can be fixed on the support by a screw M4 or using an adhesive at the places where drilling is impossible. The opening of the support is carried out using a screwdriver. It is advisable to read the instructions for the particular adhesive being used, for example "using on a clean and smooth surface".



Product name	SES-CT	SES-GFB
Material	high impact Polystyrene	aluminium
Colour	light grey RAL7035	natural alu
Operating temperatures	-40 to +70°C	-40 to +70°C
Adhesive	-	adhesive foam protected by a film
Adhesion	-	0,7 N/cm ₂ (e.g. stainless steel)
Dielectric strength	150 kV/mm	-
Pack	10 carriers of 10 pre-cut cable clamps	-
Application/s	guide and route wires	cable clamps are ideal when plastic clamps cannot be used. They are of little bulk and hold wires or cables by manual locking (no tool). They are easy to fix when conditions concerning adhesive supports are respected.

Fixations Cable Clamps



Product name	SAF	Set screws SES
Material	galvanized steel	polyamide 6.6
Colour	white	natural
Operating temperatures	-30 to +60°C	-30 to +85°C
Adhesive	acrylic on polyethylene foam	-
Density	-	1,14 (7 times less than steel)
Dielectric strength	-	25 kV/mm
Application/s	recommended in environments where drilling is not allowed (noise and/or dust) as in the corridors of hospital services in activity. They can also be used when drilling is not possible or when the area is difficult to access. The metal tab can be deformed and adapted to all types of conductors up to an overall diameter of 16 mm.	ideal for fixing cable clamps, strappings or other cabling accessories, particularly where conditions deny the use of metallic devices.



Product name	PLIOCATCH with rivet	PLIOCATCH GA-W
Material	PA	PA
Colour	natural - black	black
Operating temperatures	-40 to +85°C	-40 to +85°C
Flame / fire resistance	V2 UL94	V2 UL94
Application/s	fixing system with rivet for machines or electrical cabinet. The range includes 4 models in two colours to meet different constraints. These cable locks allow the addition or the removal of cables for a small footprint.	The PLIOCATCH GA-W 2400 is recommended for horizontal and vertical cable passage at the front or rear of modular elements. Its fixation is ensured by means of its innovative W clip to fit all square holes 9,5 x 9,5 mm up to 12,5 x 12,5 mm. Installation is possible on the sections, rails or perforated sheet and a thickness of 1.5 (9,5 x 9,5) and 1,5 to 2,0 mm (10 x 10 to 12,5 x 12,5). The upper part is provided with a hinge and a snap closure, releasable at any time. Once the cables in place, the PLIOCATCH can thus be closed and the maintenance of the cables. Its capacity is equivalent to that of a trough 60 x 40 mm.

Fixations Cable Ties



Product name	SES-QUICK SX
Material	polyamide 6.6
Colour/s	natural - black
Serration	inside
Operating temperatures	-40 to +85°C (+150°C short time)
Melting point	+260°C
Specification	V2 UL94
	-
	-
Application/s	Cable tie for general use for the maintenance of cables and wire harnesses. With its open head, inserting the strip is done easily and quickly.



Snap-in SES-QUICK cable ties inside serrations



Push-in rivet base K in PA 6.6



Product name	Series T	SES-QUICK SL-COLOR
Material	polyamide 6.6	PA 6.6 halogen free
Colour/s	natural - black	white, blue, green, yellow, orange, brown, red, violet, grey, black
Operating temperatures	-40 to +85°C (+150°C short time)	-40 to +85°C (+150°C short time)
Melting point	+260°C	+260°C
Serrations	inside serrations	inside serration
Ultimate elongation	60 %	60 %
Flame resistance	V2 UL94	V2 UL94
Dielectric strength	27 kV/mm	27 kV/mm
Application/s	cable ties with mounting hole for particular indoor use. Screw fixing.	coloured cable ties commonly used for the maintenance of cables and harnesses. They can also be used for the identification of electric cables. Easy installation by hand or with a tightening tool.

Fixations Cable Ties



Product name	SES-QUICK SL-V0 (AF)	SES-QUICK SE-V0 (AF)
Material	polyamide 6 flame resistant, halogen free	polyamide 6 flame resistant, halogen free
Colour/s	white - black	white - black
Serration/s	inside	outside
Operating temperatures	-40 to +100°C	-40 to +100°C
Melting point	+220°C	+220°C
Flame resistance	V0 UL94	V0 UL94
Specifications	material approved according to the standards fire-smoke NF F 16-101/102 and EN 45545	material approved according to the standards fire-smoke NF F 16-101/102 and EN 45545
Application/s	cable ties adapted for fixing beams and flexible cables. Their inside serrations ensure efficient maintenance of cables. Recommended in applications requiring high fire resistance and self-extinguishing materials (eg. Rolling material, aerospace, rail, tunnel, ...). Flame retardant system halogen and red phosphorus free which emit toxic gases under fire.	cable ties used in high vibration environments without damaging the cables. Recommended in applications requiring high fire resistance and self-extinguishing materials (eg. Rolling material, aerospace, rail, tunnel, ...). Flame retardant system halogen and red phosphorus free which emit toxic gases under fire.



Product name	SES-QUICK SL-PP	SES-QUICK BIO
Material	polypropylene	biodegradable polyester
Colour/s	brown	natural
Operating temperatures	-20 to +70°C (+110°C short time)	-20 to +70°C (+90°C short time)
Melting point	+160°C	+120°C
Serrations	inside	inside
Ultimate elongation	-	330 %
Specifications	Highly resistant to acids, alkalis and detergents. Material complies with regulations on products in contact with food.	biodegradable material according to NF EN 13432: 2000 and ASTM D6400.
Application/s	cable ties recommended for use in the field of food processing.	fasteners for holding and fixing cables, cable harnesses and various items for temporary use (pre-assembly operations, maintenance work, construction sites, events, etc.).
Storage conditions	-	keep away from humidity, heat and light to avoid any degradation of the product before use. Made of biodegradable material, these fasteners have a limited life span.

Fixations Cable Ties



Product name	PLIO-GRAINS
Material	PA (polyamide 6) PP (polypropylene)
Colour/s	natural - black natural
Operating temperatures	-20 to +85°C -20 to +75°C
Flame resistance	V2 UL94 -
Application/s	outdoor use for black colour standard use



Product name	CB 140 F natural	CB 200 F natural
Length (mm)	140	200
Width (mm)	6	6
Max. bundleØ (mm)	10 → 30	12 → 50
Tensile strength mini. (daN)	10	10



Product name	SES-160/90 SF-D natural	SES-160/90 SF-C natural
Length (mm)	165	165
Width (mm)	9	9



Product name	PLIOTER earth straps	SES-WRAP
Strap	tinned bronze	hooks: polyethylene strap: nylon PA
Operating temperatures	-	-20 to +105°C
Cap and wire-strainer	electrogalvanized steel	-
Section	2,5 to 50 mm ²	-
Specification	conform to norm NF C15-100	-
Application	designed for grounding electrical installations and metal conduits. The range covers a range of conductors from 2,5 to 50 mm ² and tubes from 8 to 88 mm Ø. The flange and cable are fixed by screwing.	used for fixing of delicate cables, organization of cables... Out of velour-laminate, SES-WRAP ties spare the cables and have the advantage of being adjustable and reusable.

Fixations Cable Ties



Product name	INOX-BALL-QUICK	INOX-MULTI-QUICK	
		IMQ N316	IMQ R316
Coating	-	-	polyester
Material	stainless steel 304 or 316	stainless steel	stainless steel
Operating temperatures	-80 to +540°C	-80 to +540°C	-30 to +150°C
Thickness	0,265 mm	0,279 mm	0,46 mm
Flame resistance	non-flammable	non-flammable	-
U.V. resistance	very good	excellent	very good
Specification	certification UL 62275	-	
Application/s	for cables or flexible tubing. 304: recommended in extreme temperature applications or flammable like food, chemical, medical ... 316: recommended in applications with risk of corrosion, such as shipbuilding, mining, petrochemical, textile ... High resistance to corrosion.	these ties can be tightened in steps due to a unique multiple locking system. To apply with a hook or with tensioner on rigid or flexible support. 316: recommended in extreme temperature applications and corrosion.. 316 coated: recommended for fragile insulated cables.	

Hand tool for INOX ties in stainless steel



Type	K111	RR-G01
Description	manual pulling and cutting	adjustable tension and automatic cut-off.
For ties	INOX-BALL-QUICK & INOX-MULTI-QUICK	INOX-BALL-QUICK & INOX-MULTI-QUICK
Weight (g)	550	550

Fixations Cable Ties



Product name	SM6	SM66+	SM12
Material	Polyamide 6	Polyamide 6.6 modified	Polyamide 12
Colours	black	black	black
Temperatures of use	-20 to +70°C +120°C short time	-40 to +70°C +120°C short time	-40 to +60°C +120°C short time
Specifications	good resistance against U.V. V2 UL94	protected against U.V. HB UL94	protected against U.V. conform to norm NFC20540 HB UL94
Application	For indoor use	For indoor and outdoor use	For indoor and outdoor use

Accessories - tie bases SES for cable ties SL - SE - SR and SM lashing ties



Product name	Wall plug
Information	The tie bases with wall plug in polyamide, black colour, are designed to be used with our cable ties for installation series SM width 9 mm. It is recommended to use the tie bases in PA6 for an interior use and the tie bases in PA12 for an external use.



Product name	SES-SC HT
Material	PA 6.6 HT (high temperatures), UV stabilized
Colour	black
Temperatures of use	-40 to +115°C
Flame resistance	V2 UL94
Applications	system for attachment through the wall, with a blanking head which covers hole both inside and outside of the chassis. Dome head to facilitate the passage of the cables in the chassis. It is compatible with SES-QUICK cable ties of 4.6 and 4.7 mm width

Fixations Cable Ties Tools for cable ties SES-QUICK




Product name	F-50	F-200
Handle	plastic	plastic
Tensile strength	-	4 to 11 daN (4 tensile strengths)
Length	170 mm	160 mm
Width	70 mm	130 mm
Weight	60 g	200 g
Application	simple cable tie tool, without dynamometric cutting device for cable ties up to 4,8 mm width.	adjustable dynamometric tool for cable ties up to 4,8 mm width. When cables are bundled at the required strength, the excess tie tail is automatically cropped.



Product name	F-301	F-350
Handle	plastic	metallic
Tensile strength	4 to 11 daN (8 tensile strengths)	1 to 9 daN (4 tensile strengths)
Length	170 mm	160 mm
Width	130 mm	130 mm
Weight	270 g	300 g
Application	comfortable and ergonomic adjustable dynamometric tool for SES-QUICK cable ties up to 4,8 mm width. When cables are bundled at the required strength, the excess tie tail is automatically cropped.	adjustable dynamometric tool for SES-QUICK cable ties up to 4,8 mm width. When cables are bundled at the required strength, the excess tie tail is automatically cropped.

Fixations

Cable Ties Tools for lashing ties SES-SM

 7,6 ... 13 mm



 7,6 ... 9 mm



Product name	F-90	F-95
Handle	metallic	metallic
Length	190 mm	200 mm
Width	100 mm	90 mm
Weight	300 g	320 g
Clamping range	-	2,5 to 10daN
Application	tool without dynamometric device for lashing ties SM, SE and SL from 7,6 to 9 mm width. When cables are bundled to the required strength, press on the small handle to cut off the excess tie tail.	tool with dynamometric device for lashing ties SM, SE, SL and LT from 7,6 to 13 mm width. When cables are bundled, the excess tie tail is automatically cropped.

Tools and machines / Sleeve expanders

SES sleeve expanders series KP Ultra lightweight in PLIO®-Carbox for SES binding

These sleeve expanders are ideal for use with original HELAVIA and SILAVIA sleeves.



SES-KP 1 sleeve expander
for sleeves A0 - A1 - A1bis

up to 4,5 mm Ø max.

SES-KP 2 sleeve expander
for sleeves A1 - A1bis - A1K - A2 - A2K - A3

up to 9 mm Ø max.

SES-KP 3 sleeve expander
for sleeves A2 - A2K - A3 - A4 - A5

up to 15 mm Ø max.

SES-KP 4 sleeve expander
for sleeves A5 - A8 - A9 - A10

up to 28 mm Ø max.

SES sleeve expanders series KY Ultra lightweight in PLIO®-Carbox for SES binding

These sleeve expanders are ideal for use with original HELAVIA and SILAVIA sleeves.



SES-KY 1 sleeve expander
for sleeves A0 - A1 - A1bis

up to 4,5 mm Ø max.

SES-KY 2 sleeve expander
for sleeves A1 - A1bis - A1K - A2 - A2K - A3

up to 9 mm Ø max.

SES-KY 3 sleeve expander
for sleeves A2 - A2K - A3 - A4 - A5

up to 15 mm Ø max.

SES-KY 4 sleeve expander
for sleeves A5 - A8 - A9 - A10

up to 28 mm Ø max.

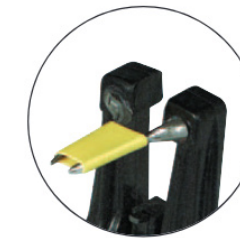
Tools and machines / Sleeve expanders

SES sleeve expanders hand and bench mounted

SES-KN and SES-KNS sleeve expander in Polyamide for sleeves A0 - A1 - A1bis - A1K - A2



KN with 3 prongs



KNS with 2 prongs



Tool H



Prongs H

SES-H bench mounted sleeving tool
with foot pedal,
for sleeves A2 - A2K - A3 - A4 - A5



Foot pedal H

SES-X bench mounted sleeve expander
with hand operated lever
for sleeves A5 - A8 - A9 - A10



Tool X

Tools and machines / Manual wire strippers and stripping machines

SES automatic stripping pilers and precision tools



Product name	SES - 6010	SES-4010 (standard)
Material	PLIO-Carbox black	Zamak (zinc alloy) PVC insulated handles
Material blades	special tool steel	special tool steel
Sections	0,15 to 6 mm2	0,15 to 10 mm2
Weight	200 g	360 g
Length	180 mm	180 mm



Product name	SES-4011 (flat cable)	SES-5012 photovoltaic
Material	Zamak zinc alloy white PVC insulated handles	Zamak zinc alloy white PVC insulated handles
Material blades	special tool steel	special tool steel
Sections	flat cables: 2x 0,5 to 2x 1 mm2 round cables: 1,5 mm2	1,5 - 2,5 - 4 - 6 mm2
Weight	360 g	360 g
Length	180 mm	180 mm



Product name	SES-5011 (teflon)	SES-DK (kapton)
Material	Zamak zinc alloy white PVC insulated handles	Zamak zinc alloy white handles insulated
Material blades	special tool steel	special tool steel
Sections	30 to 10 AWG	26 to 10 AWG
Weight	360 g	360 g
Length	180 mm	180 mm

Tools and machines / Manual wire strippers and stripping machines

SES stripping tools with self adjusting blades



Product name	DURO-STRIPAX	MINI-STRIPAX
Material	polyamide	polyamide
Stripping section	0,03 to 0,9 mm2	0,08 to 1 mm2
Stripping length	7 mm maxi.	7 mm maxi.
Cutting section	1 mm2 maxi.	1 mm2 maxi.
Weight	92 g	95 g
Application	self adjusting blades for flexible PVC insulated wires	self adjusting blades for flexible PVC insulated wires or flat cables 5 mm maxi.



Product name	SES-JOKARI SUPER 4 Plus	SES-STRIPAX
Material	glass-reinforced polyamide	polyamide
Stripping section	0,2 to 6 mm2	0,08 to 6 mm2
Stripping length	15 mm maxi.	18 mm maxi.
Cutting section	2,5 mm2 maxi.	4 mm2 maxi.
Weight	90 g	130 g
Application	self adjusting blades for flexible and rigid wire.	self adjusting blades for flexible and rigid wire, round or flat, mono or multi-conductor.

Tools and machines / Manual wire strippers and stripping machines

SES stripping tools with self adjusting blades



Product name	SES-2000	SES-JOKARI "Special"
Material	polyamide	glass-reinforced polyamide
Stripping section	0,08 to 6 mm ²	0,5 to 6 mm ²
Stripping length	18 mm maxi.	18 mm maxi.
Cutting section	6 mm ² maxi.	Ø 2,8 mm maxi.
Weight	200 g	160 g
Application	self adjusting blades for flexible and rigid wire, round or flat, mono or multi-conductor.	self adjusting blades for flexible wire. Cable can be inserted from the side in inaccessible areas.



Product name	SES-JOKARI 6-16	SES-JOKARI MEPLAT
Material	glass-reinforced polyamide	glass-reinforced polyamide
Stripping section	6 to 16 mm ²	-
Stripping length	unlimited (the wire can pass between the arms of the tool)	unlimited (the wire can pass between the arms of the tool)
Cutting section	-	-
Weight	120 g	120 g
Application	self adjusting blades for flexible wire. Stripping of long lengths.	self adjusting blades for flat wire or sheet of 11 mm width maxi.



Product name	SES-JOKARI SENSOR MINI	SES-JOKARI SENSOR SPECIAL
Material	glass-reinforced polyamide	glass-reinforced polyamide
Stripping capacities	3,2 - 4,4 mm	4,4 - 7 mm
Stripping length	unlimited	unlimited
Weight	126 g	126 g
Application	self adjusting blades for flexible cable type «Sensor actuator» (insulation PVC, PUR, TPE-U) shielded or unshielded.	self adjusting blades for flexible cable type «Sensor actuator» (insulation PVC, PUR, TPE-U) shielded or unshielded.

Tools and machines / Manual wire strippers and stripping machines

SES universal stripping tools



Product name	SES-JOKARI HIGH-STRIP (delicate cables)	2022
Material	polyamide	treated seal
For wires Ø	-	0,6 mm and more
Sections	0,5 to 4 mm ² / 20 to 11 AWG	-
Weight	100 g	35 g
Height	121 mm	-
Length	145 mm	130 mm
Specification	-	stripping tool for varnished wires. Usability avoiding hand fatigue.



SES simple stripping tools



Product name	DS-5	SES-166
Material	chromed steel	treated steel
Material handles	bi-material	insulated cellulose acetate (CA)
maxi stripping-Ø	5 mm (10 mm ²)	0,3 to 5 mm
Weight	157 g	185 g
Length	160 mm	160 mm
Specifications	for single-wire conductors, multiwire and fine wires, plastic or rubber insulation.	designed for quick use with maximum safety for the soul of conductors. The cutting system consists of lamellae with independent action that fit the profile of the wire or cable. Easy access to difficult areas, these tools are particularly recommended for wiring work assemblers, electricians, maintenance electricians and installers.

Tools and machines / Stripping tools for regular reinforced cables

SES stripping tools



Product name	SES-JOKARI	SES-JOKARI UNI-PLUS
Material handle	PA	PA
Material blade	steel, titan-nitride coated	steel, titan-nitride coated
Stripping capacity	Ø 4 to 70 mm (according to model)	external Ø 8 to 15 mm
Weight	-	46 g
Length	-	130 mm
Applications	for stripping all standard round cables. These tools are equipped with a red knurled nut for adjusting the cutting depth. The cutting blades are specially coated with Titanium Nitride (TiN) and offer a longer life, faster cutting and slower wear. The user benefits from a secure grip thanks to the non-slip handle. A spare blade is included in the handle.	for cable stripping, SES-JOKARI UNI-PLUS is equipped with 2 additional blades for cables from 1.5 to 2.5mm2. It is equipped with a stopper of modifiable length for a ambidextrous use.



Product name	SES-JOKARI n°12	SES-JOKARI SECURA 15
Material handle	PA	PA
Material blade	steel, titan-nitride coated	steel, titan-nitride coated
Stripping capacity	external Ø 8 to 13 mm	external Ø 8 to 13 mm 0,2 - 0,3 - 0,8 - 1,5 - 2,5 and 4,0 mm2
Weight	50 g	46,5 g
Length	124 mm	124 mm
Applications	SES-JOKARI No. 12 is equipped with a durable and ergonomic pocket clip for stripping in junction boxes.	SES-JOKARI SECURA 15 is equipped with a retractable knife for stripping cables.

Tools and machines / Stripping tools for regular reinforced cables

SES stripping tools



Product name	SES-STAR-STRIPPER
Material handle	PA
Material blade	steel, titan-nitride coated
Stripping capacity	external Ø 4 to 13 mm 0,5 to 16 mm2
Weight	75 g
Length	135mm
Applications	Universal multi-purpose tool designed for circular and longitudinal cutting without adjustment of the cutting depth. It allows the stripping of coaxial cables in steps from 4 to 8 mm Ø.



Product name	KABIFIX LK 25	KABIFIX FK 28
Material handle	PA	PA
Stripping capacity	Ø 6 to 25 mm	Ø 4 to 28 mm
Length	100 g	100 g
Applications	Stripping with transversal and longitudinal cut of optical fibre cables, coaxial and waterproof. Robust tool with a rotating blade a swivel knife.	Stripping with transversal and longitudinal cut of optical fibre cables, coaxial and waterproof. Robust tool with a rotating blade a swivel knife.

Tools and machines / Stripping tools for regular reinforced cables

SES tools for special cables



Product name	SES-COAXI N° 1 for coaxial cables	SES-JOKARI N° 14 for flat cables
Material blades	titanium nitride treated steel	special treated steel
Material handles	polyamide (PA)	polyamide (PA)
Capacity	Ø 4,8 to 7,5 mm, RG58 and RG59	-
Unsheathing capacity	-	flat cables maxi. width 12 mm
Stripping capacity	-	conductor 0.8, 1.5 and 2.5 mm ²
Weight	22 g	48,5 g
Length	100 mm	124 mm
Specifications	Stripping in two quick and easy steps: 1) unsheathing of the outer insulation (side 1) and turn-up shield, 2) stripping the interior insulation (side 2).	Transversal and longitudinal cut.



Product name	SES-JOKARI CAT 1 for data cables	SES-JOKARI FIBRE STRIP LC for optical fibre
Material blades	titanium nitride treated steel	treated steel
Material handles	polyamide (PA)	polyamide (PA)
Capacity	cables Ø 4,5 to 10 mm	cables Ø 8,2 mm
Weight	22 g	43 g
Length	100 mm	125 mm
Specifications	for data cable with PVC insulation and foil shield. Transversal cut. Stripping in 2 steps: 1) external insulation. 2) strip.	optical fibre cable (24x mono-mode). Bi-lateral longitudinal section.

Tools and machines / Stripping tools for regular reinforced cables

SES jacket strippers for large cables



Product name	SES-COSSONAY cutters with guiding shoe	SES-3051 jacket remover
Material blades	Hardened steel blade	retractable blade
Material handles	polyamide (PA)	insulated PA handle (PA - Polyamide).
Specifications	Blade with guiding shoe to cut insu- lation without damage to the conduc- tors.	lightweight, retractable blade with guiding security tip, to cut longitudi- nally cable insulations of maximum thickness 3,5 mm.

Tools and machines / Scissors and cable cutting tools

SES special cutting tools



Product name	DX-110 shears for trunking	Cutting tool for trunking webs
Information	<ul style="list-style-type: none"> - With an adjustable guide device. - Reduction system for a cut with less effort. - A tool specially developed to cut all the cable trunking with side slits from the SES-STERLING programme. - Cutting width of the trunking from 110 to 150 mm is done in 2 stages. - Sharp blade in hardened steel. - Non-slip handle. - Ability for bias cut (marking guide to 45°). 	<ul style="list-style-type: none"> - Will cut trunking webs with little effort. - Simultaneous cutting of 2 webs. - For conduit trunkings. - Sharp blade (width 21,5 mm). - Body in steel and cast iron.



Product name	DK-60 nibbling tool for trunkings
Information	<ul style="list-style-type: none"> - To achieve base punching and slots. - Insulated handles. - Cut width 3 mm. - 11 mm cut in one operation.

Tools and machines / Scissors and cable cutting tools

SES special cutting tools - CUT system for trunkings and plastic tubes



Product name	CUT 3104 shears for diagonal cropping of trunking	CUT 3105 cutting tool straight cut
Information	<ul style="list-style-type: none"> - Ideal angle cut profiles of plastic, rubber or wood - Cutting capacity: width 40 mm height 25 mm - Blade length: 60 mm 	<ul style="list-style-type: none"> - Same as CUT 3104 cutting tool but with diagonal cutting feature - Ideal for the cropping of plastic, rubber or wood mouldings - Blade length: 60 mm



Product name	CUT 3204/90 cutting tools for profiles and tubes	CUT 3204/16-19 cutting tool for tubes
Information	<ul style="list-style-type: none"> - To cut rectangular profiles: 25 x 45 mm rigid plastic conduit: up to Ø 25 mm - Blade length: 60 mm 	<ul style="list-style-type: none"> - To cut tubes: Ø 16 and 19 mm - Blade length: 60 mm



Product name	CUT 3604 cutting tool for diagonal cutting up to 80 mm
Information	<ul style="list-style-type: none"> - To cut profiles up to: 80 mm - Blade length: 85 mm

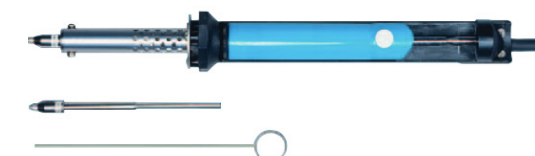
Tools and machines / Desoldering tools

SES desoldering tools



Product name	1101	1000
Weight (g)	40	70
Ø (mm)	18	20
Length (mm)	160	195

SES desoldering tool with integrated heating



Product name	DI-3 24V 30 W
Weight (g)	215
Ø (mm)	34
Length (mm)	265

SES desoldering braiding in short length dispenser



Product name	TA yellow	TB grey	TC blue	TD white	TE green
Braiding width (mm)	1,5	2	3	4	5
Length per dispenser (mm)	1,7	1,7	1,7	1	1

SES desoldering braiding in medium-sized length dispenser



Product name	10 red	15 orange	20 black	30 violet
Braiding width (mm)	1	1,5	2	3
Length per dispenser (mm)	3	3	3	3



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