



PRODUCT OVERVIEW

Heat-shrink Tubing and Products
Insulating and Protective Tubing
Cable Ties and Fastening Products

PRODUCT OVERVIEW


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**WHY NOT
CUSTOMIZE?**
Your order is our
command!

Just talk to our sales team to have consecutive serial numbers, a logo or a barcode imprinted on the tubing you'd like to order. When it comes to customization, there is very little we cannot do.

For cutting tubing to length plus custom printing alone, we have six production lines running at all times during business hours.

Other options for customization include using special packaging units or your company's own packaging, tags and labels. We can also have your order drop shipped directly to your customer.



050/A015/101/06.2018



1A THIN-WALLED HEAT-SHRINK TUBING

BP 105



Polyolefin

Very flexible, low-cost, not flame-retardant.



Uses and application:

Insulation and protection of wires, cables, and power rails.

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +105°C

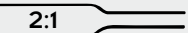
Available inside diameter range:

1.2 mm to 101.6 mm (on delivery)

Standard colors:

Black and clear.

BP 125



Polyolefin

Flame-retardant, flexible.



Uses and application:

Electrical and mechanical protection of cables, wires, cable strands and harnesses.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +125°C

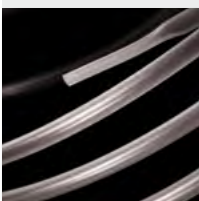
Available inside diameter range:

1.2 mm to 150.0 mm (on delivery)

Standard colors:

Black, blue, green, red, white, yellow; additional colors upon request.

BP 135



Polyolefin

Flame-retardant, flexible, and temperature-resistant.



Uses and application:

Electrical and mechanical protection of cables, wires, cable strands and harnesses.

Specifications:

UL 224, 125°C, VW-600V, File No.: E196690 (except clear-colored)

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +135°C

Available inside diameter range:

1.2 mm to 150.0 mm (on delivery)

Standard colors:

Black, blue, clear, green, red, white, yellow; additional colors upon request.

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Thin-wall Heat-shrink Tubing

1A

BP 135 VW-1

Polyolefin



Extremely flame-resistant and highly flexible.

Uses and application:

Electrical and mechanical protection of cables, wires, cable strands and harnesses.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690

Shrink ratio: 2 to 1

Operating temperature:

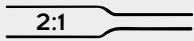
-55°C to +135°C

Available inside diameter range:

1.2 mm to 150.0 mm (on delivery)

Standard colors:

Black, blue, green, red, white, yellow; additional colors upon request.



BP 300

Polyolefin



Flame-retardant, flexible, high shrink ratio.

Uses and application:

Electrical and mechanical protection of components with widely varying diameters.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690 (except clear-colored version)

Shrink ratio: 3 to 1

Operating temperature:

-55°C to +135°C

Available inside diameter range:

1.5 mm to 39.0 mm (on delivery)

Standard colors:

Black, blue, clear, green, green-yellow, red, white, yellow; additional colors upon request.



BP 400

Polyolefin



Flame-retardant, flexible, very high shrink ratio.

Uses and application:

Electrical and mechanical protection of components with widely varying diameters.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690 (except clear-colored version)

Shrink ratio: 4 to 1

Operating temperature:

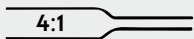
-55°C to +125°C

Available inside diameter range:

8.0 mm to 32.0 mm (on delivery)

Standard colors:

Black; other colors upon request.



BPUTW

Polyolefin



Flame-retardant, quick shrinking, very flexible, ultra-thin walled.

Uses and application:

Universal application; especially suited for quick, flexible protection of sensitive components.

Specifications:

UL 224, 125°C, VW-1, 300V, File No.: E196690 (except clear-colored version)

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +125°C

Available inside diameter range:

1.5 mm to 15.6 mm (on delivery)

Standard colors:

Black and clear; additional colors upon request.



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Thin-wall Heat-shrink Tubing

BP 135 GE/GR

Polyolefin



Co-extruded, green and yellow striped, flame-retardant, and flexible.

Uses and application:

Insulation of cables, mains, and wires; used to mark grounding cables and wires.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690

Shrink ratio: 2 to 1

Operating temperature:

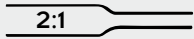
-55°C to +135°C

Available inside diameter range:

1.6 mm to 101.6 mm (on delivery)

Standard colors:

Green-yellow striped



1A

BPIMS 300

Polyolefin



Flame-retardant, flexible, halogen-free, lay flat tube.

Uses and application:

Perfect for marking cables and wires; ideally suited for thermal transfer printing.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690

Shrink ratio: 3 to 1

Operating temperature:

-55°C to +135°C

Available inside diameter range:

2.4 mm to 50.8 mm (on delivery)

Standard colors:

Black, white, yellow; additional colors upon request.



HAVE YOUR COMPANY LEAVE ITS FOOT PRINTS BUT LET US DO THE WALKING!

You want your cables and wires labeled and marked just right? No problem, we can have the tubing you'd like to order imprinted, cut to length or perforated to your specifications.





MEDIUM-WALL AND HEAVY-WALL HEAT-SHRINK TUBING

1 B

BPMW



3:1

Polyolefin

Exceptional mechanical properties, medium-walled, not flame-retardant.



Uses and application:

Excellent protection of cable joints; ideal for cable repairs above and below ground.

Shrink ratio: 3 to 1

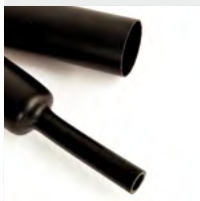
Operating temperature: -55°C to +110°C

Available inside diameter range:

8.0 mm to 450.0 mm (on delivery)

Standard colors: Black

BPTW



3:1

Polyolefin

Exceptional mechanical properties, not flame-retardant, thick-walled.



Uses and application:

Extra robust protection of cable joints; ideal for cable repairs above and below ground.

Shrink ratio: 3 to 1

Operating temperature: -55°C to +110°C

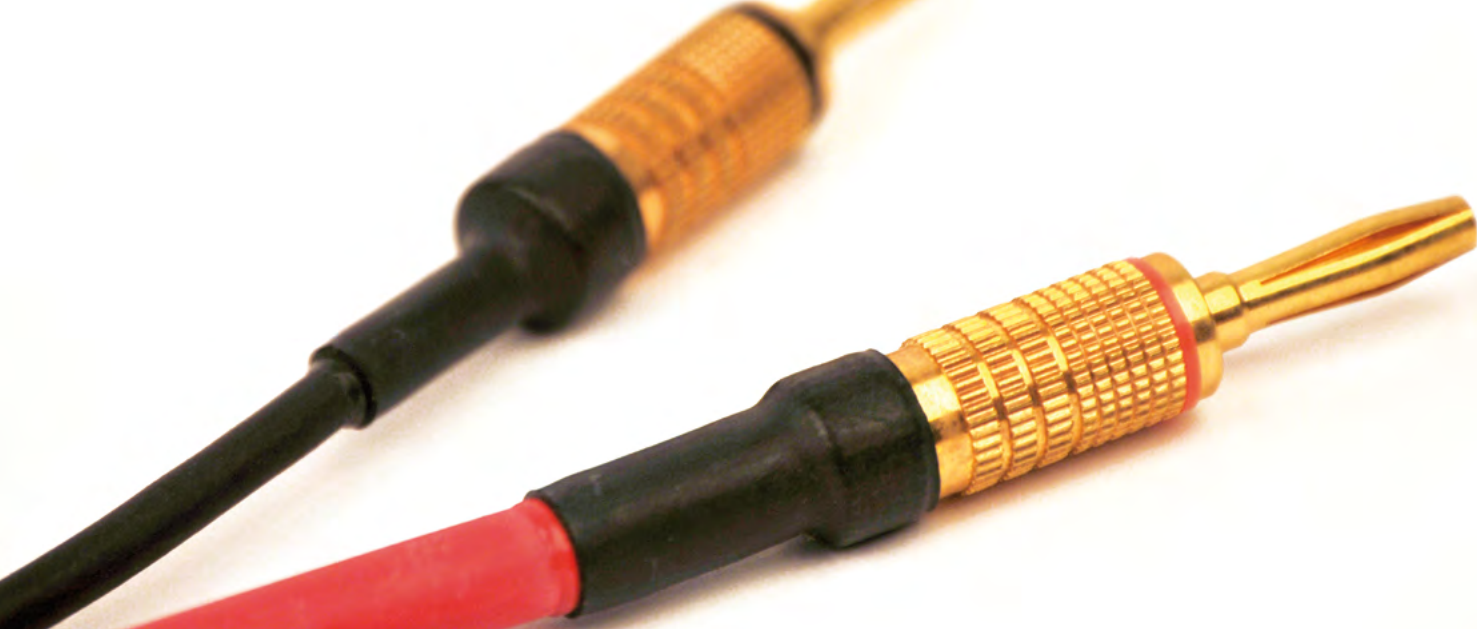
Available inside diameter range:

9.0 mm to 350.0 mm (on delivery)

Standard colors: Black

SPECIAL REQUESTS?

You would like a different color, custom size, some sort of modification, or a related specialty item? Don't be shy and contact us! We are more than happy to assist you. Our dedicated team of professionals will help you find the optimal product and solution for your intended application.



1c HEAT-SHRINK TUBING WITH ADHESIVE LINING

BPDW 100

Polyolefin

Uses and application:

Flexible, moisture-resistant insulation of cables and wires.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690 (black only)

Shrink ratio: 3 to 1

Operating temperature:

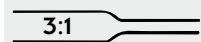
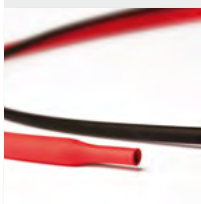
-55°C to +125°C

Available inside diameter range:

3.0 mm to 39.0 mm (on delivery)

Standard colors:

Black, blue, clear, green, red, white, yellow; additional colors upon request.



BPDW 104

Polyolefin

Uses and application:

Flexible, moisture-resistant insulation of cables and wires.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690 (black only)

Shrink ratio: 4 to 1

Operating temperature:

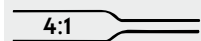
-55°C to +125°C

Available inside diameter range:

4.0 mm to 52.0 mm (on delivery)

Standard colors:

Black, blue, clear, green, red, white, yellow; additional colors upon request.



BPBK

Polyolefin

Uses and application:

Especially useful for sealing cable ends, joints and harnesses; the adhesive melts and fills nooks and gaps.

Specifications:

UL224 (black only)

Shrink ratio: 5 to 1

Operating temperature:

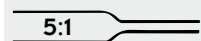
-40°C to +125°C

Available inside diameter range:

6.0 mm to 17.8 mm (on delivery)

Standard colors:

Black and clear.



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Heat-shrink Tubing with Adhesive Lining

BPMW A



3:1

Polyolefin

Inside coated with adhesive, medium-walled, not flame-retardant.



Uses and application:

Great protection against moisture and adverse weather conditions; ideal for cable repairs above and below ground.

Shrink ratio: 3 to 1

Operating temperature:

-55°C to +110°C

Available inside diameter range:

8.0 to 450.0 mm (on delivery)

Standard colors:

Black

BPTW A



3:1

Polyolefin

Inside coated with adhesive, not flame-retardant, thick-walled.



Uses and application:

Great protection against moisture and adverse weather conditions; ideal for cable repairs above and below ground.

Shrink ratio: 3 to 1

Operating temperature:

-55°C to +110°C

Available inside diameter range:

9.0 to 350.0 mm (on delivery)

Standard colors:

Black

BPHW A



6:1

Polyolefin

Inside coated with adhesive, extremely high shrink ratio, heavy-walled.



Uses and application:

Insulating or sealing components with widely varying diameters.

Shrink ratio: 6 to 1

Operating temperature:

-55°C to +110°C

Available inside diameter range:

19.0 to 235.0 mm (on delivery)

Standard colors:

Black

SPECIAL REQUESTS?

You would like a different color, custom size, some sort of modification, or a related specialty item? Don't be shy and contact us! We are more than happy to assist you. Our dedicated team of professionals will help you find the optimal product and solution for your intended application.



1D FLUOROPOLYMER AND ELASTOMER HEAT-SHRINK TUBING

BPVDF 175



PVDF (Kynar®*)

Abrasion-resistant, highly flame-retardant and self-extinguishing, semi-rigid, thin-walled.

Uses and application:

Ideal for use in high-temperature environments and where great chemical resistance and protection from abrasion are key.

Specifications:

UL 224, 125°C, VW-1, 600V, File No.: E196690

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +175°C

Available inside diameter range:

1.2 mm to 38.1 mm (on delivery)

Standard colors:

Black, clear/natural; additional colors upon request.



* Trademark registered to Arkema

PTFE 200 AWG PTFE



Excellent chemical and temperature resistance, semi-rigid, thin-walled.

Uses and application:

Electrical and mechanical insulation under high chemical or thermal stress.

Shrink ratio: 2 to 1

Operating temperature:

-67°C to +260°C

Available inside diameter range:

AWG 0 to AWG 34 (American Wire Gauge) (on delivery)

Standard colors:

Natural-colored; additional colors upon request.



Available in different wall strengths.

Fluoropolymer and Elastomer Heat-shrink Tubing

1D

PTFE 400



PTFE

Excellent chemical and temperature resistance, semi-rigid, thin-walled, very high shrink ratio.

Uses and application:

Electrical and mechanical insulation of components with widely varying diameters under high chemical or thermal stress.

Shrink ratio: 4 to 1

Operating temperature:

-67°C to +260°C

Available inside diameter range:

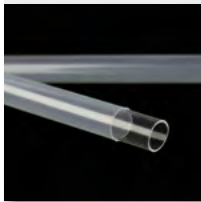
2.0 mm to 101.6 mm (on delivery)

Standard colors:

Natural-colored; additional colors upon request.



PTFE/FEP



PTFE / FEP

Dual heat-shrink tubing with an FEP inlay inside a PTFE sheath; excellent chemical and thermal resistance.

Uses and application:

Airtight and watertight sealing of components that need to withstand great chemical or thermal stress.

Shrink ratio: at least 2 to 1

Operating temperature:

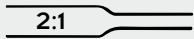
-67°C to +205°C

Available inside diameter range:

0.91 mm to 25.4 mm (on delivery)

Standard colors:

Natural-colored; additional colors upon request.



BER 100



Elastomer

Flexible, high mechanical resistance, protection against abrasion and chemicals.

Uses and application:

Flexible insulation offering great protection against abrasion, fuels like diesel, hydraulic fluids, and other aggressive substances.

Shrink ratio: 2 to 1

Operating temperature:

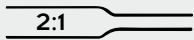
-55°C to +150°C

Available inside diameter range:

3.2 mm to 76.2 mm (on delivery)

Standard colors:

Black



BP VIT



Fluorelastomer

Excellent resistance against temperature, oils, fuels and other harmful substances; very flexible.

Uses and application:

Abrasion-resistant protection from corrosive fluids and high temperatures.

Shrink ratio: 2 to 1

Operating temperature:

-55°C to +200°C

Available inside diameter range:

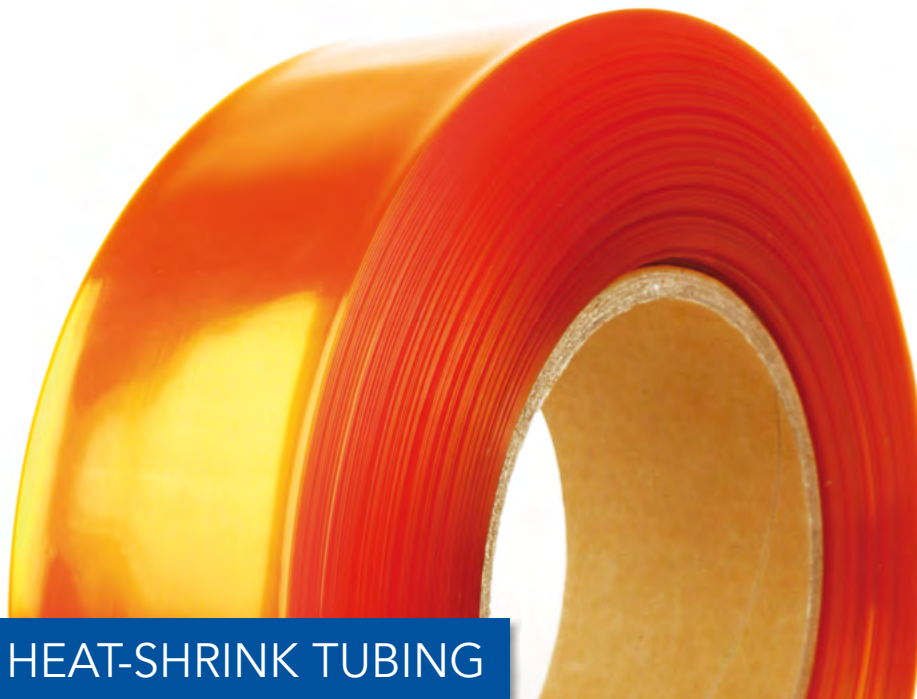
3.2 mm to 50.8 mm (on delivery)

Standard colors:

Black



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1 E PVC HEAT-SHRINK TUBING

WPS 105



2:1

Plasticized PVC

Thin-walled, very flexible soft PVC.



Uses and application:

Insulation and protection of wires, cables, and power rails.

Shrink ratio: 2 to 1

Operating temperature:

-30°C to +105°C

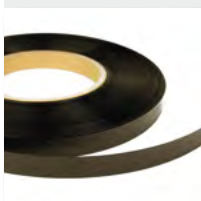
Available inside diameter range:

1.2 mm to 101.6 mm (on delivery)

Standard colors:

Black, blue, clear, green, red, white, yellow; other colors upon request.

HPS



2:1

Unplasticized PVC

Lay flat rigid PVC; very thin-walled.



Uses and application:

Shrink wrapping around batteries, battery packs, and capacitors.

Specifications:

UL 224 on request

Shrink ratio: 2 to 1

Operating temperature:

-20°C to +85°C

Available flat width range:

2.5 mm to 350.0 mm (on delivery)

Standard colors:

Black, blue, clear, green, red, white, yellow; other colors upon request.

SPECIAL REQUESTS?

You would like a different color, custom size, some sort of modification, or a related specialty item? Don't be shy and contact us! We are more than happy to assist you. Our dedicated team of professionals will help you find the optimal product and solution for your intended application.



MISCELLANEOUS HEAT-SHRINK PRODUCTS

1 F

BP-HSF 125

**Polyester/
Polyolefin**



Fiber heat-shrink tubing.

Uses and application:

Superior protection from abrasion; also useful for vibration damping.

Shrink ratio: 2 to 1

Operating temperature:

-40°C to +125°C

Available inside

diameter range:

12.0 mm to 70.0 mm
(on delivery)

Standard colors:

Black

2:1



BWAS

Polyolefin



Heat-shrink repair sleeve with inner adhesive sealing, offering protection against corrosion and moisture.

Uses and application:

Repair of damaged cables, pipes, wires, and mains; adhesive inner layer makes this product ideally suited for insulation.

Endcaps

Polyolefin



Endcaps with adhesive sealing layer.

Uses and application:

Sealing of cable ends and heads or other components for better protection against moisture and environmental hazards.

BBOS

Polyolefin




Heat-shrink distribution caps with adhesive sealing layer.

Uses and application:

Ideal for insulating anywhere from 2 to 6 conductor or line branches.

Miscellaneous Heat-shrink Products

1F

<p>BLVK</p> 	<p>Polyolefin</p> <p>Thick-wall heat-shrink joint kit.</p>	<p>Uses and application: Designed for connecting multi-core cables.</p>
<p>BPATT</p> 	<p>Polyolefin</p> <p>Anti-tracking, creepage-resistant heat-shrink tubing.</p>	<p>Uses and application: Insulation of medium-voltage conductors.</p>
<p>BPRS</p> 	<p>Polyolefin</p> <p>Heat-shrink rain-shed type creepage extenders.</p>	<p>Uses and application: Great electrical properties and creepage resistance; used for extending creepage distances.</p>
<p>BPCBTM (BPBT)</p> 	<p>Polyolefin</p> <p>Medium-wall or heavy-wall heat-shrink tubing</p>	<p>Uses and application: Insulation in medium-voltage setups (up to 36 kV both for medium-wall or heavy-wall versions).</p>
<p>BPSCON</p> 	<p>Polyolefin</p> <p>Semi-conductive heat-shrink tubing.</p>	<p>Uses and application: Ideal for the insulation of connectors and sealing ends in medium-voltage setups.</p>
<p>BPHST high voltage</p> 	<p>Polyolefin</p> <p>UV-resistant heat-shrink tape with adhesive sealing layer for use in high-voltage systems (i.e., 10 to 35 kV).</p>	<p>Uses and application: Insulation of rectangular or round conductors; provides perfect moisture resistance.</p>
<p>BPHST low voltage</p> 	<p>Polyolefin</p> <p>UV-resistant heat-shrink tape with adhesive sealing layer for use in low-voltage systems (i.e., less than 1 kV).</p>	<p>Uses and application: Insulation of rectangular or round conductors; provides perfect moisture resistance.</p>
<p>BHW-CS (Cold Shrink)</p> 	<p>Silicone rubber</p> <p>Cold-shrink tubing.</p>	<p>Uses and application: Electrical and mechanical protection of cables, pipes, and other components; simple and fast installation with no need for tools like a heat gun.</p>

050/E151/101/06.2018 All information subject to change and provided as is without warranty.



HEAT-SHRINK TOOLS

1G

Electric Heat Gun

Heat gun with electronic control unit

High-performance, strong, robust!

Uses and application:

Ideal for industrial uses like:

- Plastic welding – either with pinpoint accuracy or with plastic welding wire
- Overlap welding of plastic foils, wraps or sheets
- Repair of tar roofs
- Shrinking and thermoforming of packaging foils, wraps or sheets

Operating temperature:

80°C to +650°C

Electronic heat-control unit:

Voltage: 230 V, 50/60 Hz

Wattage: 2,300 W

Air volume output:
150 to 500 liter/min.

Temperature freely adjustable;
LED temperature display.



BATCH IT UP!


BIT offers professional advice and assistance if shrinking large batches is something you are looking at professionally.

Cooperating closely with our partners, we can offer custom shrinking tools and industrial-scale shrinking equipment tailored to your company's specific needs and requirements.



2 INSULATING AND PROTECTIVE TUBING

Product Overview

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WHY NOT CUSTOMIZE?

Your order is our command!

Just talk to our sales team to have consecutive serial numbers, a logo or a barcode imprinted on the tubing you'd like to order. When it comes to customization, there is very little we cannot do.

For cutting tubing to length plus custom printing alone, we have six production lines running at all times during business hours.

Other options for customization include using special packaging units or your company's own packaging, tags and labels. We can also have your order drop shipped directly to your customer.

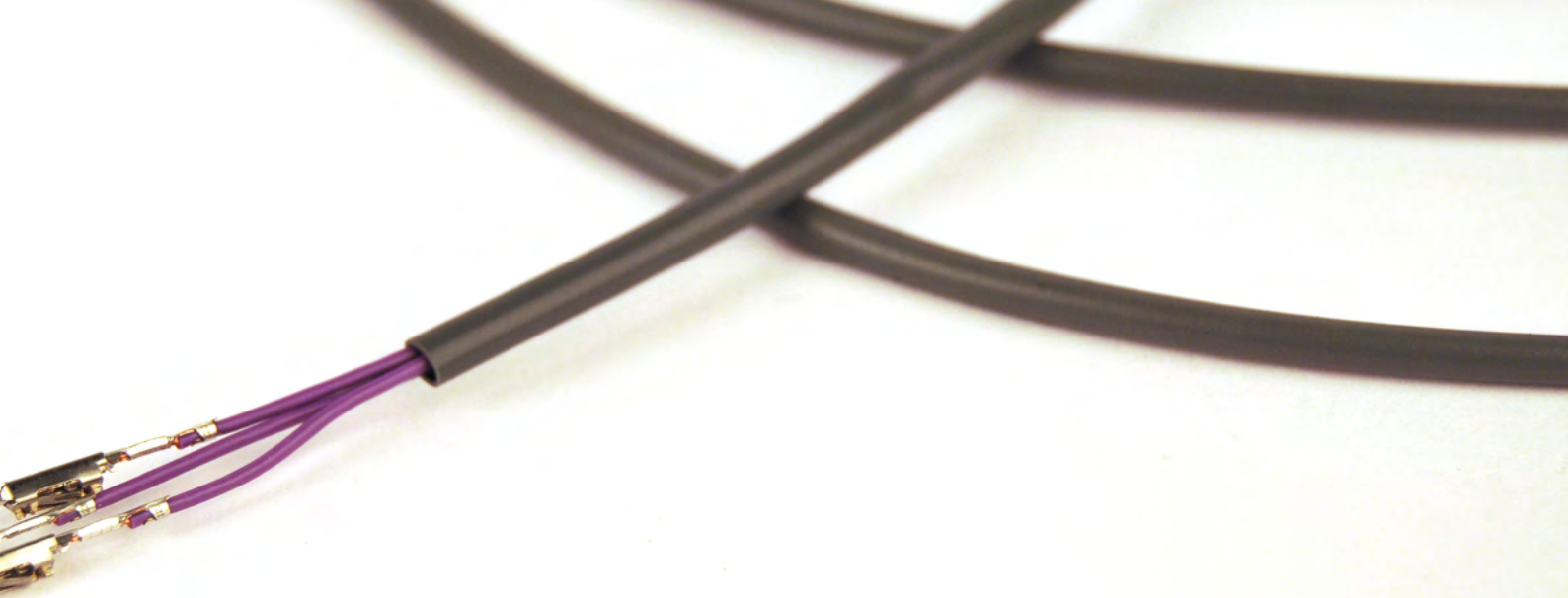


050/A021/101/06.2018

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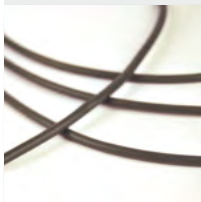
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2A INSULATING TUBING

BIS 85



✓RoHS

Plasticized PVC

Flexible, low-cost;
made of soft PVC.

Uses and application:

Insulation and bundling of cables
and wire strands in the automotive,
machine-construction and
electronics industries.

Operating temperature:

-20°C to +85°C

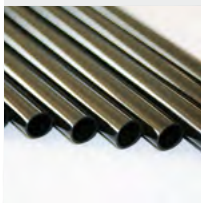
Available inside diameter range:

0.30 mm to 40.0 mm

Standard colors:

Black; other colors upon
request.

BIS 85 K



✓RoHS

Plasticized PVC

Flexible, improved
cold-resistance;
made of PVC.

Uses and application:

Insulation and bundling of cables
and wire strands in the automotive,
machine-construction and
electronics industries.

Operating temperature:

-40°C to +85°C

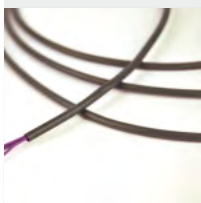
Available inside diameter range:

0.30 mm to 40.0 mm

Standard colors:

Black; other colors upon
request.

BIS 105



✓RoHS

Plasticized PVC

Flexible, improved
thermal resistance;
made of soft PVC.

Uses and application:

Insulation and bundling of cables
and wire strands in the automotive,
machine-construction and
electronics industries.

Operating temperature:

-20°C to +105°C

Available inside diameter range:

0.30 mm to 40.0 mm

Standard colors:

Black; other colors upon
request.

Insulating Tubing

BIS 120 HT



Plasticized PVC

Flexible, improved thermal resistance; made of soft PVC.

Uses and application:

Insulation and bundling of cables and wire strands in the automotive, machine-construction and electronics industries.

Operating temperature:

-20°C to +105°C
(briefly up to +120°C)

Available inside

diameter range:
2.0 mm to 22.0 mm;
other sizes on request.

Standard colors:

Black with white identification stripe.

BIS 105 UL



Plasticized PVC

Flexible soft PVC with improved thermal resistance and UL specification.

Uses and application:

Cable or wire insulation and bundling tasks in the automotive, machine-construction and electronics industries that require UL certification.

Specifications:

UL 224, VW-1, 600 V

Operating temperature:

-35°C to +105°C

Available inside

diameter range:
0.79 mm to 16.0 mm

Standard colors:

Black; other colors upon request.

BIS SI



Silicone

Halogen-free; highly flexible and resistant to high temperatures and aggressive agents.

Uses and application:

Insulation and bundling of cables and wire strands in electronics and machine construction.

Operating temperature:

-60°C to +200°C

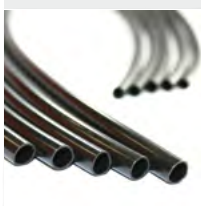
Available inside

diameter range:
0.30 mm to 200.0 mm

Standard colors:

Natural-colored; other colors upon request (or either according to RAL Color Chart or specific sample).

BIS SI UL



Silicone

Extremely flexible, halogen-free; highly resistant to high temperatures and aggressive agents; comes with UL specification.

Uses and application:

Insulation and bundling of cables and wire strands in electronics and machine construction.

Specifications:

UL 224, VW-1, 600 V

Operating temperature:

-50°C to +200°C

Available inside

diameter range:
0.50 mm to 14.0 mm

Standard colors:

Black

Insulating Tubing

BIS PUR



Polyurethane

Highly flexible; very resistant to ozone, water, compressor oils, UV radiation, and other aggressive agents.

Uses and application:

Insulation and protection of cable and wire strands in temperatures of up to 120°C.

Operating temperature:

-40°C to +120°C

Available inside diameter range:

1.6 mm to 30.0 mm

Standard colors:

Black; other colors upon request.



2A

BIS PA



PA6, PA6.6, PA11, PA12

Great protection from oils, fuels, greases, and solvents; high abrasion and impact resistance; made of polyamide.

Uses and application:

Insulation of cables and wires; ideally suited as pneumatic tubing for compressed or pressurized air.

Specifications:

UL 94 V0 upon request

Operating temperature:

-40°C to +90°C

Available inside diameter range:

4.0 mm to 22.0 mm; other diameter sizes upon request.

Standard colors:

PA6, PA6.6, PA11: Any upon request; PA12: Black, blue, natural-colored; additional colors upon request.



BIS PE



Polyethylene, LD-PE

Good dielectric properties, high resistance to many aggressive agents, low-cost; also available with UL specification.

Uses and application:

Insulation of cables and wires; ideally suited as pneumatic tubing for compressed or pressurized air.

Specifications:

UL 224 (black only)

Operating temperature:

-30°C to +75°C

Available inside diameter range:

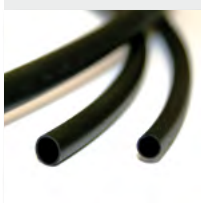
4.0 mm to 18.0 mm; other diameter sizes upon request.

Standard colors:

Black, blue, natural-colored; additional colors upon request.



BIS VIT



Viton®*-Fluorelastomer

Flexible; high resistance against acids, oils, oxidizing agents, and similar chemicals.

Uses and application:

Protection of electronic components in high-temperature systems.

Operating temperature:

-20°C to +200°C (briefly up to +300°C)

Available inside diameter range:

1.0 mm to 20.0 mm

Standard colors:

Black



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Insulating Tubing

PTFE Iso



PTFE (Polytetrafluoroethylene)

High-quality insulating tubing with universal chemical resistance.

Uses and application:

Protection and bundling of cables, wires and components in high-temperature systems.

Operating temperature:

-60°C to +260°C

Available inside diameter range:

0.20 mm to 20.0 mm

Standard colors:

Natural-colored



2A

PTFE AWG



PTFE (Polytetrafluoroethylene)

High-quality insulating tubing with universal chemical resistance.

Uses and application:

Protection and bundling of cables, wires and components in high-temperature systems.

Operating temperature:

-60°C to +260°C

Available inside diameter range:

AWG 0 to AWG 30 (American Wire Gauge)

Standard colors:

Clear



SPECIAL REQUESTS?

You would like a different color, custom size, some sort of modification, or a related specialty item? Don't be shy and contact us! We are more than happy to assist you. Our dedicated team of professionals will help you find the optimal product and solution for your intended application.

BIS 155 (D)

Fiberglass coated with polyurethane varnish

Thermoresistant, very flexible.

Uses and application:

Insulation of connectors used in the production of coils, engines, and transformers.

Operating temperature:

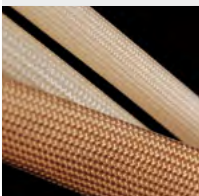
-20°C to +155°C

Available inside diameter range:

Up to 25.0 mm

Standard colors:

Black and natural-colored; additional colors upon request.

**BIS 155 (B)**

Fiberglass coated with acrylic PU resin

Thermoresistant, very flexible.

Uses and application:

Insulation of connectors used in the production of coils, engines, and transformers.

Operating temperature:

-40°C to +155°C
(briefly up to +225°C)

Available inside diameter range:

Up to 25.0 mm

Standard colors:

Black and natural-colored.

**BIS 155 UL (D)**

Polyurethane-coated fiberglass

Thermoresistant, very flexible; with UL specification.

Uses and application:

Insulation of connectors used in the production of coils, engines, and transformers.

Specifications:

UL 1441

Operating temperature:

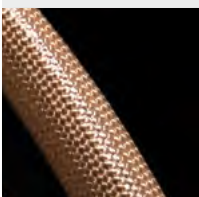
-20°C to +155°C

Available inside diameter range:

Up to 25.0 mm

Standard colors:

Natural-colored

**BIS 155 UL (B)**

Polyurethane-coated fiberglass

Thermoresistant, very flexible; with UL specification.

Uses and application:

Insulation of connectors used in the production of coils, engines, and transformers.

Specifications:

UL 1441

Operating temperature:

-30°C to +155°C
(briefly up to +180°C)

Available inside diameter range:

Up to 12.0 mm

Standard colors:

Clay-colored



Fiberglass Sleeving

<p>BIS 230 (D)</p> 	<p>Fiberglass with silicone-rubber coating</p> <p>Flexible, highly thermoresistant, virtually non-flammable.</p>	<p>Uses and application: Insulation and protection at very high temperatures. Operating temperature: -60°C to +250°C</p>	<p>Available inside diameter range: 0.5 mm to 14.0 mm Standard colors: Black and natural-colored; add. colors upon request.</p> <p>RoHS</p>
<p>BIS 230 (B)</p> 	<p>Fiberglass with silicone-rubber coating</p> <p>Flexible, highly thermoresistant, virtually non-flammable.</p>	<p>Uses and application: Insulation and protection at very high temperatures. Operating temperature: -60°C up to long-term thermal stability according to DIN/IEC 216 (50% residual elongation): 3000h at +180°C, 1000h at +200°C, 30h at +250°C.</p>	<p>Available inside diameter range: Up to 60.0 mm Standard colors: White; additional colors upon request.</p> <p>RoHS</p>
<p>BIS 230 UL (D)</p> 	<p>Fiberglass with silicone-rubber coating</p> <p>Flexible, highly thermoresistant; comes with UL specification.</p>	<p>Uses and application: Insulation and protection at very high temperatures. Specifications: UL 1441 600V Grade A Operating temperature: -70°C to +235°C</p>	<p>Available inside diameter range: 0.5 mm to 14.0 mm Standard colors: Black, natural-colored, russet brown.</p> <p>RoHS UL</p>
<p>BIS 230 UL (B)</p> 	<p>Fiberglass with silicone-rubber coating</p> <p>Flexible, highly thermoresistant; comes with UL specification.</p>	<p>Uses and application: Insulation and protection at very high temperatures. Specifications: UL 1441 600V Grade A Operating temperature: -60°C up to long-term thermal stability according to DIN/IEC 216 (50% residual elongation): 3000h at +180°C, 1000h at +200°C, 30h at +250°C.</p>	<p>Available inside diameter range: 0.5 mm to 32.0 mm Standard colors: White; additional colors upon request.</p> <p>RoHS UL</p>
<p>BIS EXP-230</p> 	<p>Fiberglass with silicone-rubber coating</p> <p>Expandable, highly flexible, self-extinguishing.</p>	<p>Uses and application: Ideal for insulating components with widely varying diameters; stretches to fit perfectly around objects for optimal protection. Specifications: UL & CUL, UL 1441 Operating temperature: -25°C to +235°C</p>	<p>Available inside diameter range: 2.0 mm to 16.0 mm Standard colors: Black; russet brown or white upon request.</p> <p>RoHS UL</p>
<p>BIS ROH</p> 	<p>Heat-treated, uncoated Fiberglass</p> <p>Extremely resistant to heat, highly flexible, self-extinguishing.</p>	<p>Uses and application: Mechanical and thermal insulation when bundling cables. Max. operating temperature: +300°C (may briefly withstand up to +450°C)</p>	<p>Available inside diameter range: 0.5 mm to 100.0 mm Standard colors: Natural-colored</p> <p>RoHS</p>

2B

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2c BRAIDED SLEEVING

BIS GE PP



Polypropylene

Expandable, self-extinguishing, temperature-resistant, very flexible.

Uses and application:

Easy-to-install protection for cables and wires.

Operating temperature:

-30°C to +105°C

Available nominal diameter range:

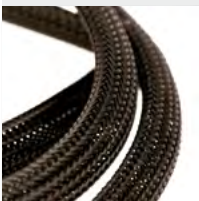
2.0 mm to 65.0 mm

Standard colors:

Black; other colors upon request.



BIS GE PET



Polyester

Expandable, flame-retardant, temperature-resistant, very flexible.

Uses and application:

Easy-to-install protection for cables and wires.

Operating temperature:

-40°C to +150°C

Available nominal diameter range:

2.0 mm to 65.0 mm

Standard colors:

Black; other colors upon request.



BIS GE PA/EMV



Silver-coated polyamide 6.6

Expandable, highly flexible, radiation-shielding.

Uses and application:

Ideal for use in high-frequency radiation shielding; pure silver coating allows for shielding attenuation values of up to 54 dB.

Operating temperature:

-40°C to +160°C

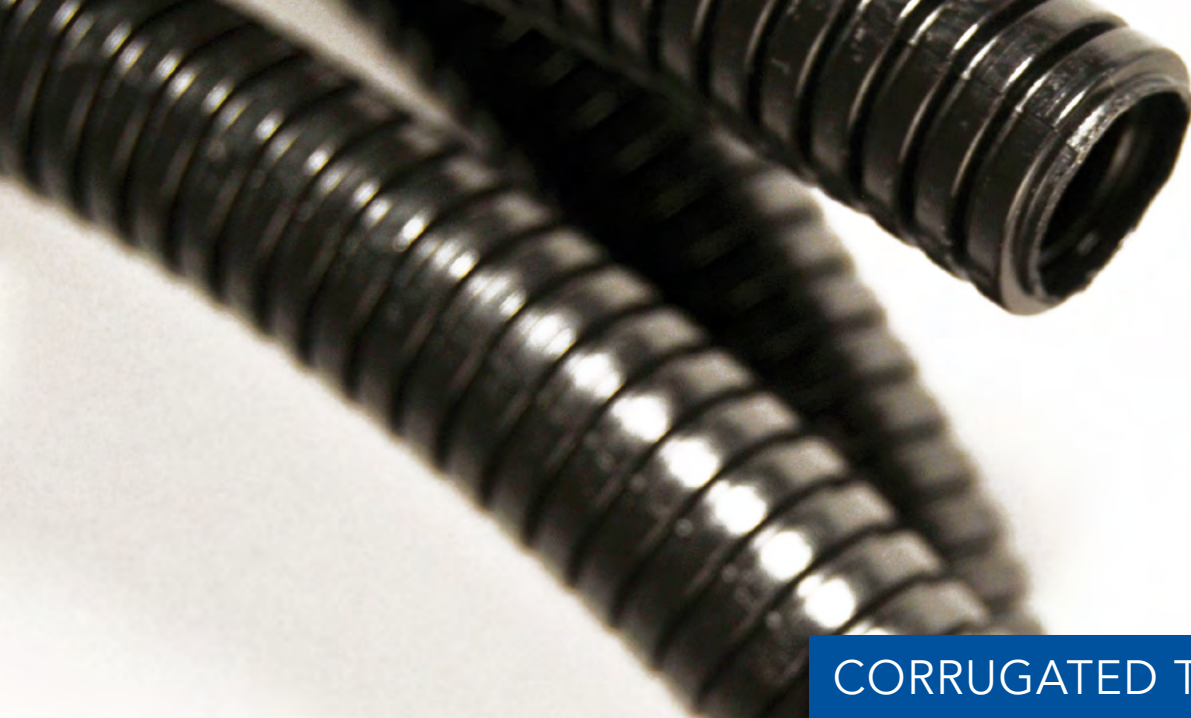
Available nominal diameter range:

1.5 mm to 115.0 mm

Standard colors:

Silver metallic





CORRUGATED TUBING

2D

BIS WS-PP



Modified polypropylene

High resistance to cold, heat, and chemical agents; also available with pre-slit wall.

Uses and application:

Superior mechanical cable protection in machine and vehicle production; also ideal for switch-cabinet and control-panel setup.

Specifications:

UL 94 V2 upon request

Operating temperature:

-40°C to +130°C
(briefly up to +160°C)

Available inside diameter range:

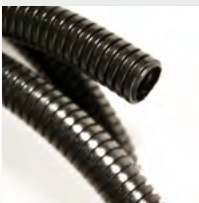
4.0 mm to 110.0 mm

Standard colors:

Black; other colors upon request.



BIS WS-PA



Polyamid 6

Cadmium-free, halogen-free, offers excellent flexural strength; also available with pre-slit wall.

Uses and application:

Superior mechanical cable protection in machine and vehicle production; also ideal for switch-cabinet and control-panel setup.

Specifications:

UL 94 V2 upon request

Operating temperature:

-40°C to +140°C
(briefly up to +160°C)

Available inside diameter range:

4.0 mm to 110.0 mm

Standard colors:

Black; other colors upon request.



COMPLEMENT YOUR SELECTION!

We also offer complementary accessories like T and Y manifolds upon request.


Our dedicated team of professionals will help you find the optimal product and solution for your intended application.



3

CABLE TIES AND FASTENING PRODUCTS

Product Overview

CONTENTS	3A Cable Ties	3.2 - 3.5
	3B Fastening Products	Twist-lock Cable Ties 3.6 Cable-tie Mounts, Adhesive 3.6 Cable-tie Mounts, Screw-on 3.6 Spiral-wrap Sleeving 3.6 Miscellaneous Products 3.7
	3C Collets and Cable-tie Tension Guns	3.8

**WHY NOT
CUSTOMIZE?**

Your order is our
command!

Just talk to our sales team to have consecutive serial numbers, a logo or a barcode imprinted on the tubing you'd like to order. When it comes to customization, there is very little we cannot do.

For cutting tubing to length plus custom printing alone, we have six production lines running at all times during business hours.

Other options for customization include using special packaging units or your company's own packaging, tags and labels. We can also have your order drop shipped directly to your customer.



050/A101/101/06.2018

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**GT****Polyamide 6.6**

Low-cost, quick and easy use, standard cable ties.

**Uses and application:**

For nearly all fastening and securing purposes and applications.

Specifications:

UL 94

Operating temperature:

-40°C to +85°C
(up to +105°C)

Available tie length range:

70.0 mm to 1200.0 mm

Available width range:

Up to 12.7 mm

Standard colors:

Black, natural-colored; many other colors upon request.

GTM**Polyamide 6.6**

Cable ties with pre-punched fixing eye.

**Uses and application:**

For quick and easy bundling and fastening of cable strands by secure screw connection, hook mounting, or riveting.

Specifications:

UL 94

Operating temperature:

-80°C to +85°C

Available tie length range:

110.0 mm to 380.0 mm

Available width range:

Up to 7.6 mm

Standard colors:

Black, natural-colored; many other colors upon request.

GT-MZ**Polyamide 6.6**

Higher tensile strength due to metal tongue, low-cost, quick and easy to use.

**Uses and application:**

For nearly all fastening and securing purposes and applications.

Specifications:

UL 94

Operating temperature:

-40°C to 85°C

Available tie length range:

100.0 mm to 760.0 mm

Available width range:

Up to 7.6 mm

Standard colors:

Black, natural-colored; many other colors upon request.

Cable Ties

GTFK

PA 12



Flat-head cable ties.

Uses and application:

Flat head for preventing grooves and scratches on bundled cables and components.

Specifications:

UL 94 HB

Operating temperature:

-40°C to +85°C

Available tie length range:

115.0 mm to 760.0 mm

Available width range:

Up to 9.0 mm

Standard colors:

Black and natural-colored.



GT-UV

Polyamide 6.6



Low-cost, quick and easy use, standard cable ties with extra UV resistance.

Uses and application:

For nearly all fastening and securing purposes and applications.

Specifications:

UL 94

Operating temperature:

-40°C to +85°C

Available tie length range:

70.0 mm to 120.0 mm

Available width range:

Up to 12.7 mm

Standard colors:

Black, natural-colored; many other colors upon request.



GTK

Polyamide 6.6



Identification ties with labeling plates for use with indelible pen or print labels.

Uses and application:

For simple securing and identification of cable bundles via labeling plates.

Optionally, you can have BIT pre-stamp the ties you order. We use hot-foil printing for optimal imprint durability and no fading.

Specifications:

UL 94

Operating temp.:

-40°C to +85°C

Available tie length range:

115.0 mm to 760.0 mm

Available width range:

Up to 9.0 mm

Standard colors:

Black and natural-colored.



GTSB

Polyamide 6.6



Pull-tight cable ties with labeling plate, reinforced head, sealable secure-lock closure, and virtually no material fatigue.

Uses and application:

Ideal for tamper-evident bundling, sealing, and securing; plus easy identification.

Specifications:

UL 94

Operating temperature:

-40°C to +85°C

Available tie length range:

100.0 mm to 350.0 mm

Available width range:

Up to 4.8 mm

(as per label size)

Standard colors:

Black, natural-colored; many other colors upon request.



GTP

Polyamide 6.6



Push-mount cable ties.

Uses and application:

Cone-shaped arrow head ensures optimal bundling, fastening, and securing of cable strands.

Specifications:

UL 94

Operating temperature:

-40°C to +85°C

Available tie length range:

150.0 mm to 200.0 mm

Available width range:

3.6 mm und 4.8 mm






Standard colors:

Black, natural-colored; many other colors upon request.



Cable Ties

3A

<p>GTM-B</p>  <p>✓RoHS</p>	<p>Polyester-coated stainless steel</p> <p>Made of AISI 304/316 stainless steel; resistant to aggressive chemicals.</p>	<p>Uses and application: Ideally suited for use under extreme conditions.</p> <p>Operating temperature: -80°C to +150°C</p>	<p>Available tie length range: 100.0 mm to 1000.0 mm</p> <p>Available width range: Up to 12.5 mm</p> <p>Standard colors: Black</p>
<p>GTME</p>  <p>✓RoHS</p>	<p>Stainless steel</p> <p>Made of AISI 304/316 stainless steel; resistant to heat and aggressive chemicals.</p>	<p>Uses and application: Ideally suited for use under extreme conditions. Different versions available: Ball-lock, tie-lock, etc.</p> <p>Operating temperature: -80°C to +538°C</p>	<p>Available tie length range: 100.0 mm to 1000.0 mm</p> <p>Available width range: Up to 12.5 mm</p> <p>Standard colors: Steel-colored</p>
<p>GTR</p>  <p>✓RoHS</p>	<p>Polyamide 6.6</p> <p>Releasable and reusable.</p>	<p>Uses and application: Quick-release mechanism makes these ties ideal for temporary bundling and fastening.</p> <p>Specifications: UL 94</p> <p>Operating temperature: -40°C to +85°C</p>	<p>Available tie length range: 150.0 mm to 390.0 mm</p> <p>Available width range: Up to 7.6 mm</p> <p>Standard colors: Black, natural-colored; many other colors upon request.</p>
<p>GT-Soft</p>  <p>✓RoHS</p>	<p>TPU</p> <p>Come either with single or double snap-lock mechanism, releasable and reusable, soft and flexible, tearproof.</p>	<p>Uses and application: Ideal for bundling and securing sensitive cables and wires; quick and easy to open but come with a safety mechanism against accidental opening.</p> <p>Operating temperature: -40°C to 85°C</p>	<p>Available tie length range: 180.0 mm to 880.0 mm</p> <p>Available width range: Up to 28.0 mm</p> <p>Standard colors: Black, green and natural-colored.</p>
<p>GT RAST</p>  <p>✓RoHS UL</p>	<p>Polyamide 6.6</p> <p>Flexible, easily adjustable ladder cable ties with adhesive or screw-mount base; releasable and reusable.</p>	<p>Uses and application: Ideal for setups requiring adhesive or screw-secured fixation or mounting of cables or wires.</p> <p>Specifications: UL 94 V-2</p> <p>Operating temperature: -40°C to +85°C (adhesive: -10°C to +60°C)</p>	<p>Available tie length range: 3.0 mm to 25.0 mm</p> <p>Available strip width range: 8.0 mm to 14.0 mm</p> <p>Standard colors: Gray</p>

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Cable Ties

GTKL-Hook-and-Loop Fastener



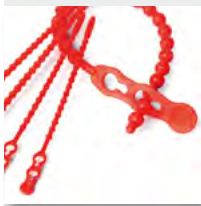
Polyamide
Hook-and-loop
fiber fasteners;
reusable.

Uses and application:
Ideally suited for flexible fastening
and securing of sensitive cables
and components.
Operating temperature:
-40°C to +85°C

**Available strip length
range:**
120.0 mm to 200.0 mm
Available width range:
13.0 mm
Standard colors:
Black, blue, green, red,
white and yellow.



GTB



Polyethylene
Ball-type cable
ties; releasable and
almost infinitely
reusable.

Uses and application:
Low tensile strength for economic
bundling and fastening.
Operating temperature:
up to +108°C

**Available tie length
range:**
12.0 cm to 665.0 m
Standard colors:
Natural-colored, red;
additional colors upon
request.



3A

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SPECIALTY CABLE TIES

In addition to our standard selection shown above, BIT also offers specialty cable ties (made from HALAR, TEFZEL, or polypropylene) designed specifically for use in aggressive media under extreme conditions. Just contact us to find out more!

TWIST-LOCK CABLE TIES

TH



Polyamide 6.6

Twist-lock cable ties; also available with adhesive base or push mount.

Uses and application:

Quick and easy bundling of cables; simple maintenance of cable bundles, strands and harnesses with no need for tools.

Specifications:

UL 94 V-2

Operating temperature:

-40°C to +85°C

Available bundle

diameter range:

Up to 4.8 mm

Standard colors:

Black and natural-colored.

3B

CABLE-TIE MOUNTS, ADHESIVE

HW-Klebesockel



Polyamide 6.6

Uses and application:

For adhesive fixation and mounting tasks.

Specifications:

UL 94

Operating temperature:

-30°C to +40°C
(briefly up to +80°C)

Available tie length

range:

For bundle diameters of up to 150.0 mm.

Standard colors:

Black and natural-colored.

CABLE-TIE MOUNTS, SCREW-ON

Schraubsockel TM



Polyamide 6.6

Uses and application:

For mounting and securing tasks that require M8-type screws.

Specifications:

UL 94

Operating temperature:

-40°C to +85°C

Available tie length

range:

For tie widths of up to 12.7 mm

Standard colors:

Black and natural-colored.

SPIRAL-WRAP SLEEVING

GST



Polyethylene

Halogen-free, reusable, very flexible; self-extinguishing upon request.

Uses and application:

For complete bundling and mechanical protection of cables and wires; ideal for use with multi-branch harnesses.

Operating temperature:

-50°C to briefly +85°C

Available tie length

range:

For diameters between 3.0 mm and 120.0 mm

Standard colors:

Black and natural-colored.

MISCELLANEOUS PRODUCTS

Heat-shrink soldering seal sleeve connector



✓RoHS

Polyolefin with metal ring

Uses and application:

Connecting, soldering, insulating, and sealing – all in one easy step!

Operating temperature:

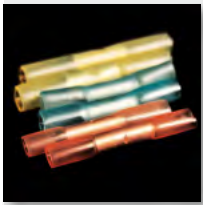
-55°C to +125°C

Standard colors:

Blue, clear, red, yellow (as per dimensions and size).

3B

Crimp connector



✓RoHS

Polyolefin heat-shrink sleeve

Come with adhesive sealing layer and protective crimping sheath already installed.

Uses and application:

Creates a waterproof, resilient connection; tight adhesive bond formed with conductor insulation provides additional stress relief.

Operating temperature:

-55°C to +125°C

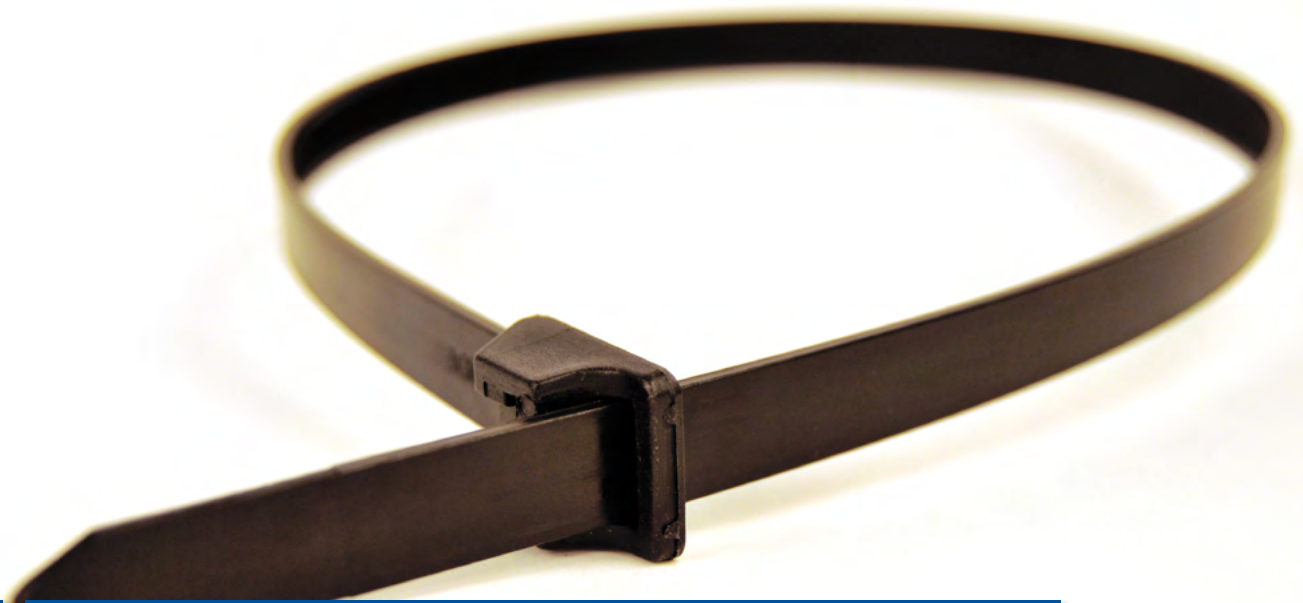
Standard colors:

Blue, red, yellow (as per dimensions and size).

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SPECIAL REQUESTS?

You would like a different color, custom size, some sort of modification, or a related specialty item? Don't be shy and contact us! We are more than happy to assist you. Our dedicated team of professionals will help you find the optimal product and solution for your intended application.



3c COLLETS AND CABLE-TIE TENSION GUNS



LY-600L

Metal

Allows quick and easy installation of cable ties.

Suitable for cable ties with a width of 2.4 to 12.7 mm; chucking power adjustable.



750-HT338

Metal

Allows quick and easy installation of stainless-steel cable ties.

Suitable for stainless-steel ties of up to 7.9 mm.



750-HT218

Metal

Allows quick and easy installation of cable ties.

Suitable for cable ties with a width of 2.4 to 4.8 mm; tension force adjustable.

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THOSE WHO CEASE TO IMPROVE

HAVE CEASED TO BE GOOD AT ALL.

Philip Rosenthal, German industrialist and politician

Continuous improvement and expansion of our product selection has made us a leading supplier of heat-shrink and insulation tubing today. For BIT, constant pursuit of progress and quality is no mere lip service, it is a living reality.



QUALITY

Out of our commitment to product quality and superior service, we have chosen to undergo regular official certification pursuant to DIN EN ISO 9001:2008.

Acting as a quality-control and certification clearing house on behalf of national government and European Union agencies, the German TÜV first formally recognized the excellence of our quality management as early as 1997. Most recently, in July 2016, TÜV inspectors examined quality management processes and workflows at BIT. Once again, BIT passed recertification pursuant to DIN EN ISO 9001 with flying colors.

We feel it is successes such as these that further illustrate our customer-oriented, quality-conscious business approach. For our clients and customers, such best practices mean maximum efficiency, reliability and transparency topped off by great service.

CUSTOMER SERVICE

We view providing the best customer support possible not just as our responsibility but as an integral principle that guides and informs both our daily work and long-term planning.

Our dedicated team of professionals will help you find the optimal product and solution for your intended application.

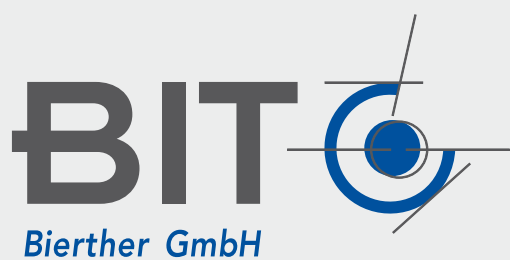
LOGISTICS

Quick response time and reliability are key! BIT Bierther GmbH maintains a comprehensive inventory and makes sure logistics are first and foremost focused on customer needs. This is why domestic delivery times for our standard products are typically 24 hours or less.



YOU CAN FIND MORE PRODUCTS AT

www.bit-gmbh.de/en



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