

## Технические характеристики

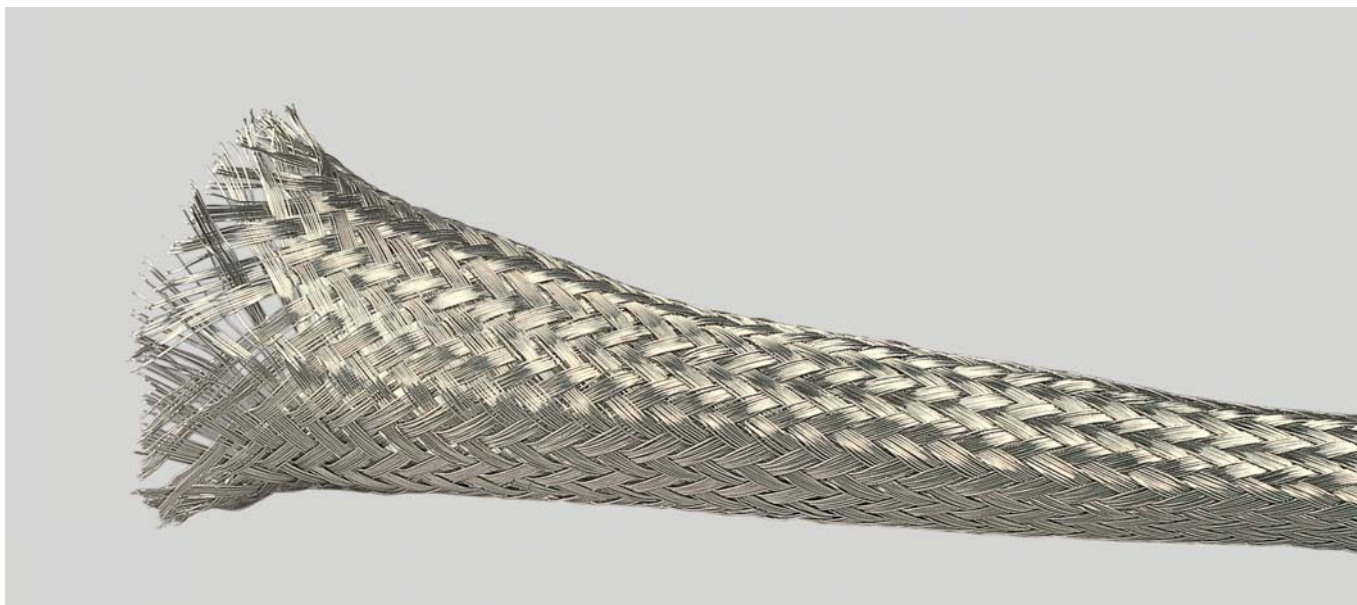
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## Braided hose CU

Braided sleeve for screening and interference protection of electrical cables and wires; also used for mechanical protection and building.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Material

Copper, tinned

## Properties

Axially compressible

## Note

Also available in 10m lengths

## Technical data

Temperature range: -75°C up to +150°C

## Copper, tinned

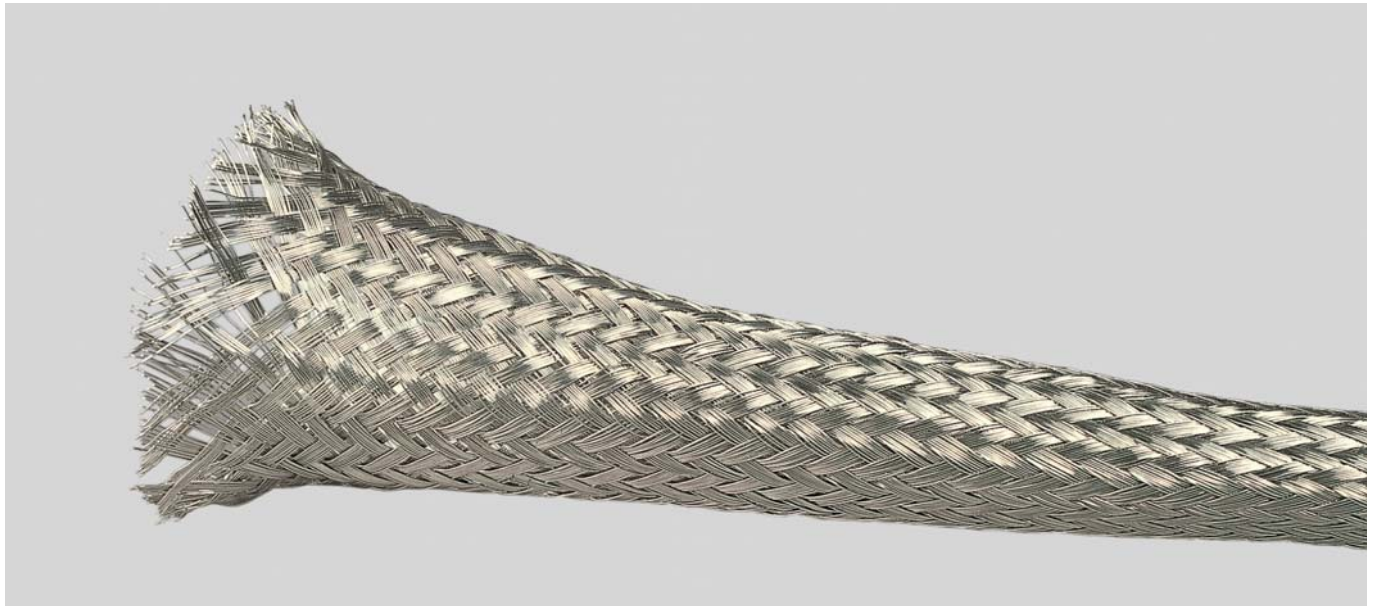
Part no.	Min. inner Ø mm	Max. inner Ø mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
97397	5,0	12,0	100,0	o. r.	o. r.	o. r.
97399	8,0	17,0	50,0	o. r.	o. r.	o. r.
97400	12,0	22,0	50,0	o. r.	o. r.	o. r.
97402	16,0	27,0	50,0	o. r.	o. r.	o. r.
97403	20,0	35,0	25,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# Steel Braided hose

Galvanized steel



## Braided hose steel

Braided sleeve for screening, bundling and mechanical protection of electrical cables and wires.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Material

Galvanized steel

## Note

Also available in 10m lengths

## Technical data

Temperature range: -75°C up to +300°C

## Galvanized steel

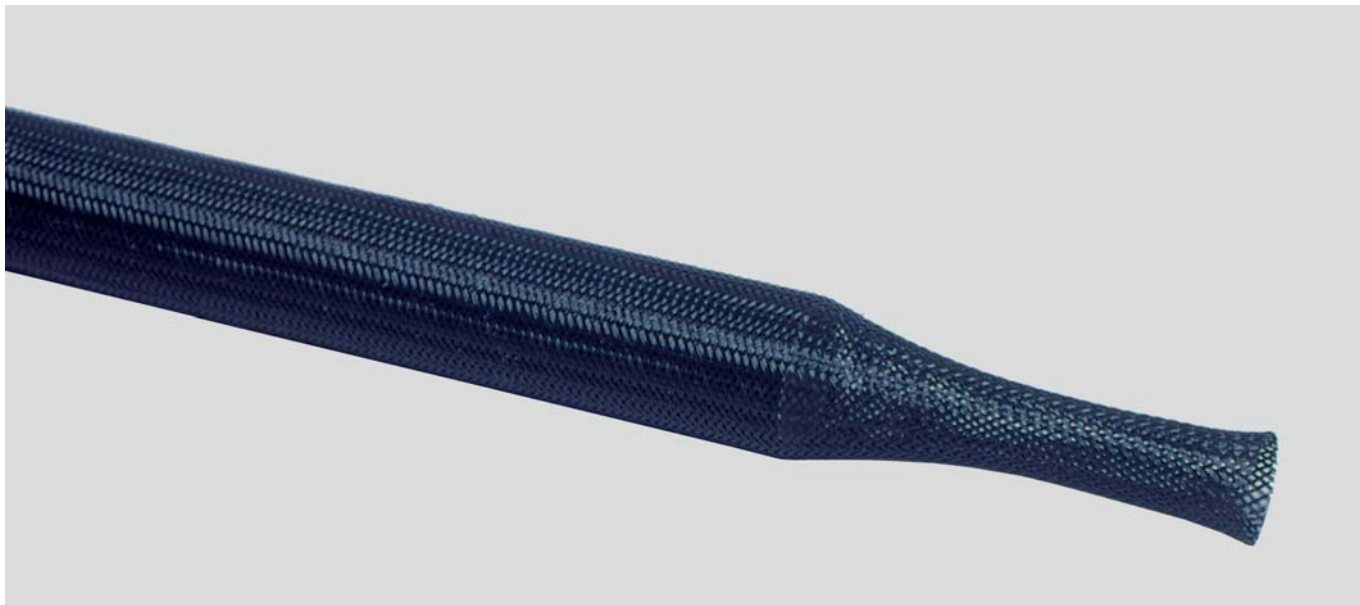
Part no.	Min. inner Ø mm	Max. inner Ø mm	PU per metre	Net EUR/ 100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
97197	5,0	12,0	100,0	o. r.	o. r.	o. r.
97199	8,0	17,0	50,0	o. r.	o. r.	o. r.
97200	12,0	22,0	50,0	o. r.	o. r.	o. r.
97202	16,0	27,0	50,0	o. r.	o. r.	o. r.
96561	20,0	35,0	25,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# HGP Braided hose

## Polyester



### HGP

Polyester braided sleeve for bundling and for mechanical protection of electrical cables and wires.

### Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

### Material

Polyester

- halogen-free

### Properties

Axially compressible

### Technical data

Temperature range: -50°C up to +150°C  
Temperature range temporary up to +220°C

### Polyester

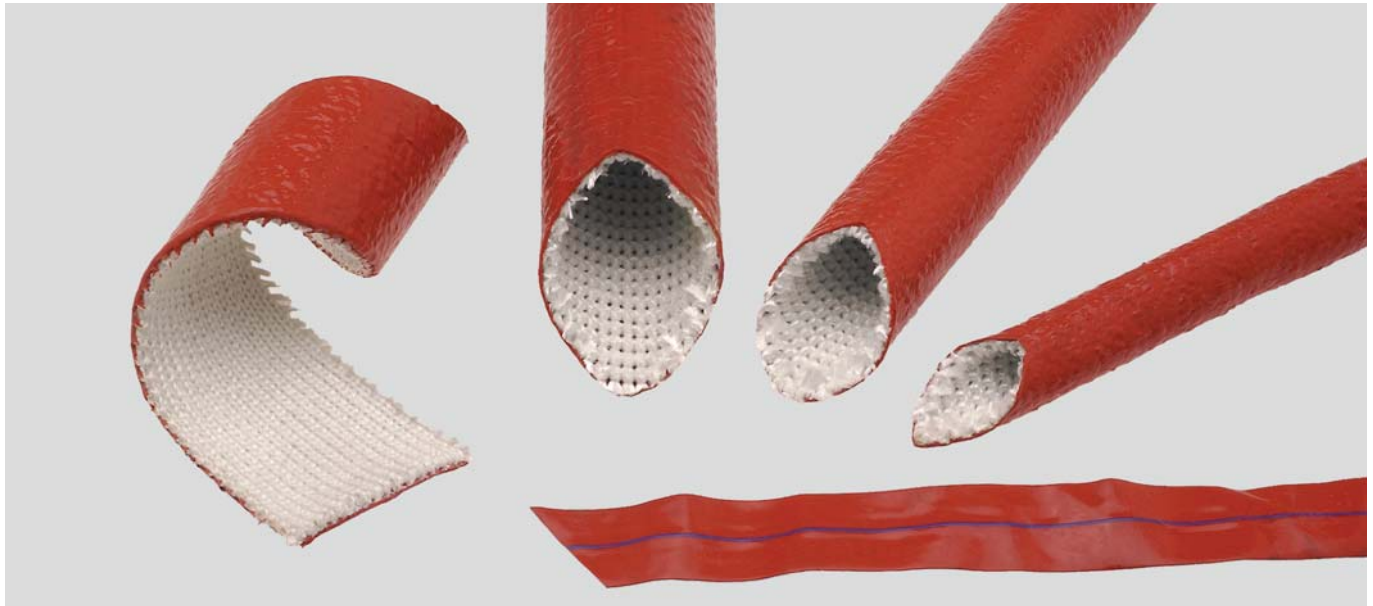
Part no. grey	Part no. black	Min. inner Ø mm	Max. inner Ø mm	PU per metre	Net EUR/100 metres at a purchase of		
					up to 100	101 - 500	501 - 1000
94900	98136	1,0	5,0	100,0	o. r.	o. r.	o. r.
94901	98137	2,0	7,0	100,0	o. r.	o. r.	o. r.
94902	98138	3,0	9,0	100,0	o. r.	o. r.	o. r.
94903	98139	4,0	11,0	100,0	o. r.	o. r.	o. r.
94904	98140	5,0	12,0	100,0	o. r.	o. r.	o. r.
94905	98141	7,0	15,0	100,0	o. r.	o. r.	o. r.
94906	98142	8,0	17,0	50,0	o. r.	o. r.	o. r.
94907	98143	10,0	20,0	50,0	o. r.	o. r.	o. r.
94908	98144	14,0	26,0	25,0	o. r.	o. r.	o. r.
94909	98145	18,0	34,0	25,0	o. r.	o. r.	o. r.
94910	98146	20,0	40,0	25,0	o. r.	o. r.	o. r.
94911	98147	30,0	50,0	25,0	o. r.	o. r.	o. r.
94912	98148	40,0	66,0	25,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# HTP Protection tube

High temperature protection



## HTP

This product is extremely heat resistant. HTP has a high insulation factor and, due to the iron oxide containing silicone sheath, is resistant to small quantities of liquid steel. HTP also protects against burn injuries from steam tubes, hot air or hot water wires.

## Material

Interior sheath of knitted glass-fibre braid

Silicone sheath (contains iron oxide)

Colour: orange

## Technical data

Permanent load: +260°C  
Short-time load: +1090°C  
(up to approx. 20 minutes)  
Loading moment: +1640°C  
(approx. 15-30 seconds)

## Protection tube

Part no. Tube version	Inner Ø mm	Width mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
93630	6,0	-	15,0	o. r.	o. r.	o. r.
93632	10,0	-	15,0	o. r.	o. r.	o. r.
904924	13,0	-	15,0	o. r.	o. r.	o. r.
93634	19,0	-	15,0	o. r.	o. r.	o. r.
93635	22,0	-	15,0	o. r.	o. r.	o. r.
93636	25,0	-	15,0	o. r.	o. r.	o. r.
93637	32,0	-	15,0	o. r.	o. r.	o. r.
93638	38,0	-	15,0	o. r.	o. r.	o. r.
93639	44,0	-	15,0	o. r.	o. r.	o. r.
93640	57,0	-	15,0	o. r.	o. r.	o. r.
93641	64,0	-	15,0	o. r.	o. r.	o. r.
93642	76,0	-	15,0	o. r.	o. r.	o. r.
93643	89,0	-	15,0	o. r.	o. r.	o. r.
93644	102,0	-	15,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

## Matching accessory



## Conduit gland LT straight

LIQUIDTIGHT gland for plastic-coated metallic protection tubes and high temperature protection tubes HTP (An additional clamping ring is required). UL/CSA approval.

The conical earthing sleeve offers maximum surface contact for optimum sealing and earthing.

# HTP Wrapping tape

High temperature protection



## HTP

This product is extremely heat resistant. HTP has a high insulation factor and, due to the iron oxide containing silicone sheath, is resistant to small quantities of liquid steel. HTP also protects against burn injuries from steam tubes, hot air or hot water wires.

## Material

Interior sheath of knitted glass-fibre braid

Silicone sheath (contains iron oxide)

Colour: orange

## Technical data

Permanent load: +260°C  
Short-time load: +1090°C  
(up to approx. 20 minutes)  
Loading moment: +1640°C  
(approx. 15-30 seconds)

## Wrapping tape

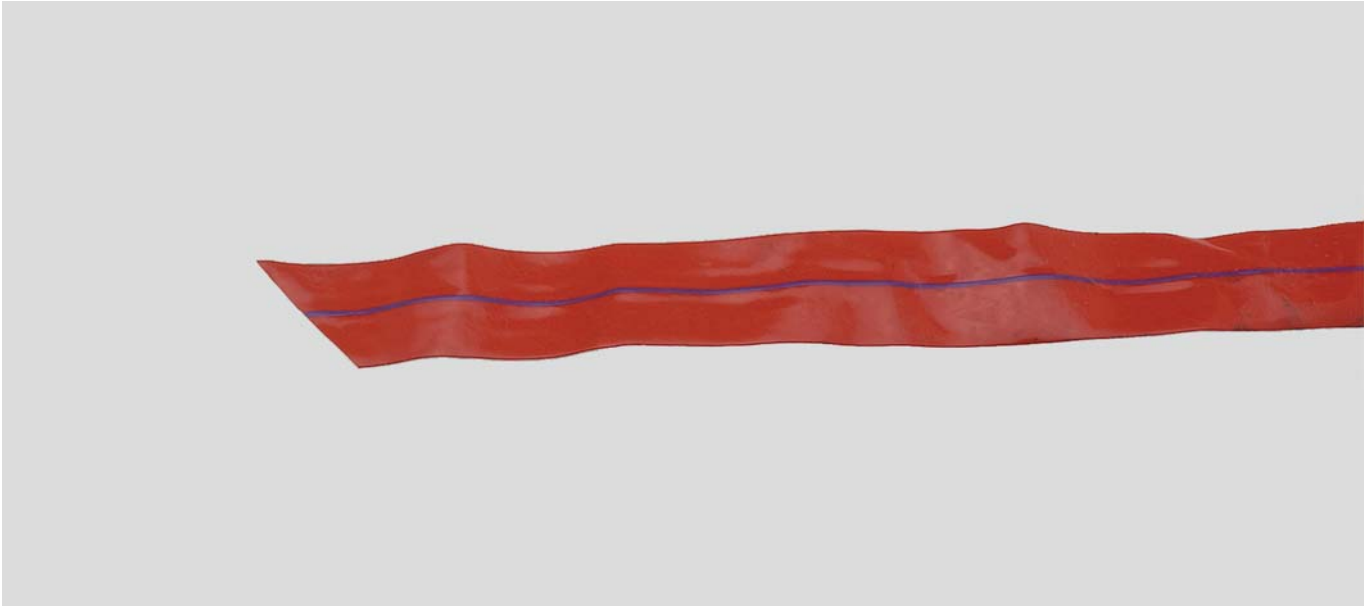
Part no. Cable wrap version	Inner Ø mm	Width mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
94721	-	25,0	15,0	o. r.	o. r.	o. r.
94722	-	51,0	15,0	o. r.	o. r.	o. r.
94723	-	76,0	15,0	o. r.	o. r.	o. r.
94724	-	102,0	15,0	o. r.	o. r.	o. r.
94758	-	127,0	15,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# HTP Adhesive tape

High temperature protection



### HTP

This product is extremely heat resistant. HTP has a high insulation factor and, due to the iron oxide containing silicone sheath, is resistant to small quantities of liquid steel. HTP also protects against burn injuries from steam tubes, hot air or hot water wires.

### Material

Interior sheath of knitted glass-fibre braid  
Silicone sheath (contains iron oxide)  
Colour: orange

### Technical data

Permanent load: +260°C

### Adhesive tape

Part no.	Inner Ø	Width	PU per	Net EUR/ 100 metres at a purchase of		
Adhesive tape version	mm	mm	metre	up to 100	101 - 500	501 - 1000
93645	-	25,0	11,0	o. r.	o. r.	o. r.

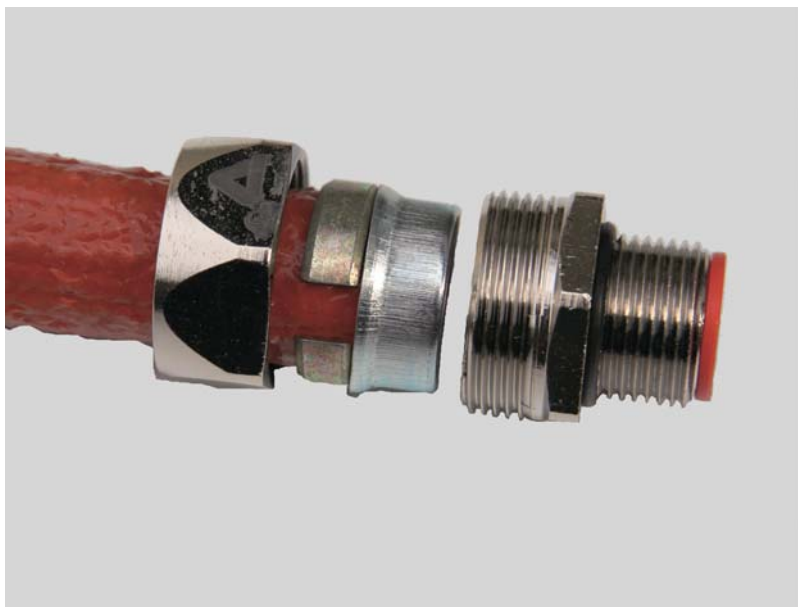
Dimensions and specifications may be changed without prior notice.

o. r. = on request



# HTP Clamping ring

High temperature protection



## Clamping rings for braided sleeve HTP

To assemble the tube connectors LT to the high temperature protection tube HTP.

The plastic clamping ring is replaced by the brass clamping ring.

## Material

Brass, nickel plated

## Technical data

Temperature range: -45°C up to +105°C

## Note

In conjunction with the tube connectors LT:  
Protection classification IP 54

## Clamping ring

Part no.	Size	Nominal size mm	Unit	Net EUR/100 items at a purchase of		
				up to 100	101 - 500	501 - 1000
905439	M16 x 1,5	13	50	o. r.	o. r.	o. r.
905555	M20 x 1,5	16	50	o. r.	o. r.	o. r.
905440	M25 x 1,5	22	25	o. r.	o. r.	o. r.
905557	M32 x 1,5	25	10	o. r.	o. r.	o. r.
905558	M40 x 1,5	35	5	o. r.	o. r.	o. r.
905559	M50 x 1,5	38	5	o. r.	o. r.	o. r.
905441	M63 x 1,5	51	4	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request



# IB Insulating tube

PVC



## IB

PVC insulated tube for later insulating and bundling cables and wires.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PVC

Colour: black

Flammability acc. to UL 94: V0

- silicone-free

## Technical data

DIN 40621

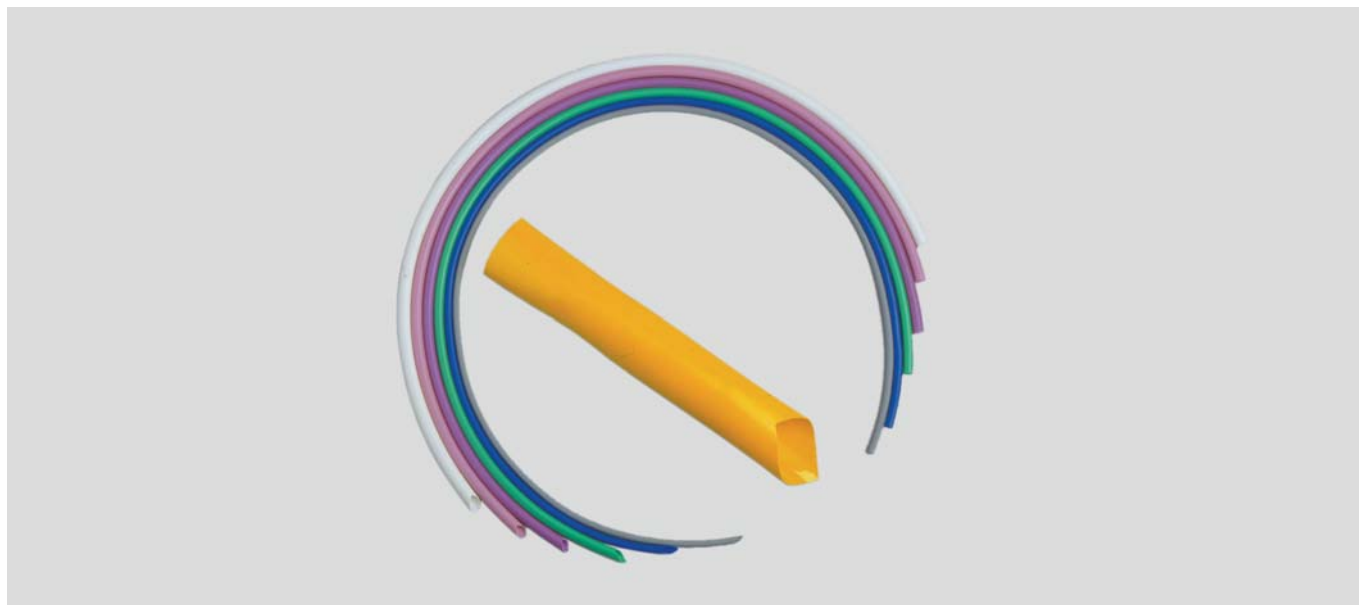
Temperature range: -20°C up to +85°C

Temperature range temporary up to +90°C

Part no.	Inner Ø mm	Wall thickness mm	PU per metre	Net EUR/ 100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
91310	1,0	0,3	200,0	o. r.	o. r.	o. r.
91311	2,0	0,4	200,0	o. r.	o. r.	o. r.
905179	3,5	0,4	200,0	o. r.	o. r.	o. r.
91312	3,0	0,4	200,0	o. r.	o. r.	o. r.
905180	4,5	0,5	200,0	o. r.	o. r.	o. r.
91313	4,0	0,5	200,0	o. r.	o. r.	o. r.
91314	5,0	0,6	200,0	o. r.	o. r.	o. r.
91315	6,0	0,6	200,0	o. r.	o. r.	o. r.
91316	7,0	0,7	100,0	o. r.	o. r.	o. r.
91317	8,0	0,7	100,0	o. r.	o. r.	o. r.
91318	9,0	0,7	100,0	o. r.	o. r.	o. r.
91319	10,0	0,7	100,0	o. r.	o. r.	o. r.
91320	12,0	0,8	100,0	o. r.	o. r.	o. r.
97228	14,0	1,0	100,0	o. r.	o. r.	o. r.
96795	16,0	1,0	100,0	o. r.	o. r.	o. r.
97281	18,0	1,0	25,0	o. r.	o. r.	o. r.
97162	20,0	1,2	25,0	o. r.	o. r.	o. r.
97282	22,0	1,2	25,0	o. r.	o. r.	o. r.
97283	26,0	1,0	25,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request



### IC

PVC insulating tube for insulating and bundling cables and wires.

### Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

### Material

PVC

Flammability acc. to UL 94: V2

- silicone-free

### Note

#### Colour code:

Replace the "x" in the table with the following figures to obtain the product number of your required colour.

0=white, 1=blue, 2=yellow, 3=red, 4=transparent, 5=green, 6=orange, 7=violet, 8=grey, 9=brown

### Technical data

DIN 40621

Temperature range: -20°C up to +90°C

### Green/yellow

Part no.	Inner Ø mm	Wall thickness mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
92280	1,0	0,4	250,0	o. r.	o. r.	o. r.
92281	1,5	0,4	250,0	o. r.	o. r.	o. r.
92282	2,0	0,4	50,0	o. r.	o. r.	o. r.
92286	4,0	0,5	50,0	o. r.	o. r.	o. r.
92289	6,0	0,55	25,0	o. r.	o. r.	o. r.
92291	8,0	0,62	25,0	o. r.	o. r.	o. r.
92292	10,0	0,75	25,0	o. r.	o. r.	o. r.
92293	14,0	0,8	25,0	o. r.	o. r.	o. r.
92294	16,0	0,8	25,0	o. r.	o. r.	o. r.

### Coloured

Part no.	Inner Ø mm	Wall thickness mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
9210x	1,0	0,4	50,0	o. r.	o. r.	o. r.
9211x	1,5	0,4	50,0	o. r.	o. r.	o. r.
9212x	2,0	0,4	50,0	o. r.	o. r.	o. r.
9213x	2,5	0,4	50,0	o. r.	o. r.	o. r.
9214x	3,0	0,4	50,0	o. r.	o. r.	o. r.
9215x	3,5	0,4	50,0	o. r.	o. r.	o. r.
9216x	4,0	0,5	50,0	o. r.	o. r.	o. r.
9217x	4,5	0,5	25,0	o. r.	o. r.	o. r.
9218x	5,0	0,52	25,0	o. r.	o. r.	o. r.
9219x	6,0	0,55	25,0	o. r.	o. r.	o. r.
9220x	7,0	0,6	25,0	o. r.	o. r.	o. r.
9221x	8,0	0,62	25,0	o. r.	o. r.	o. r.
9222x	10,0	0,7	25,0	o. r.	o. r.	o. r.
9223x	14,0	0,8	25,0	o. r.	o. r.	o. r.
9224x	16,0	0,8	25,0	o. r.	o. r.	o. r.
9225x	20,0	0,8	25,0	o. r.	o. r.	o. r.
9226x	26,0	1,0	25,0	o. r.	o. r.	o. r.
9227x	36,0	1,0	25,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SI Insulating tube

Silicone



## SI

Silicone insulating tube for insulating and bundling wires and lines.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Properties

Softener and heavy metal free, physiologically and toxicologically harmless with good chemical resistance.

## Technical data

DIN 40628

Temperature range: -50°C up to +180°C

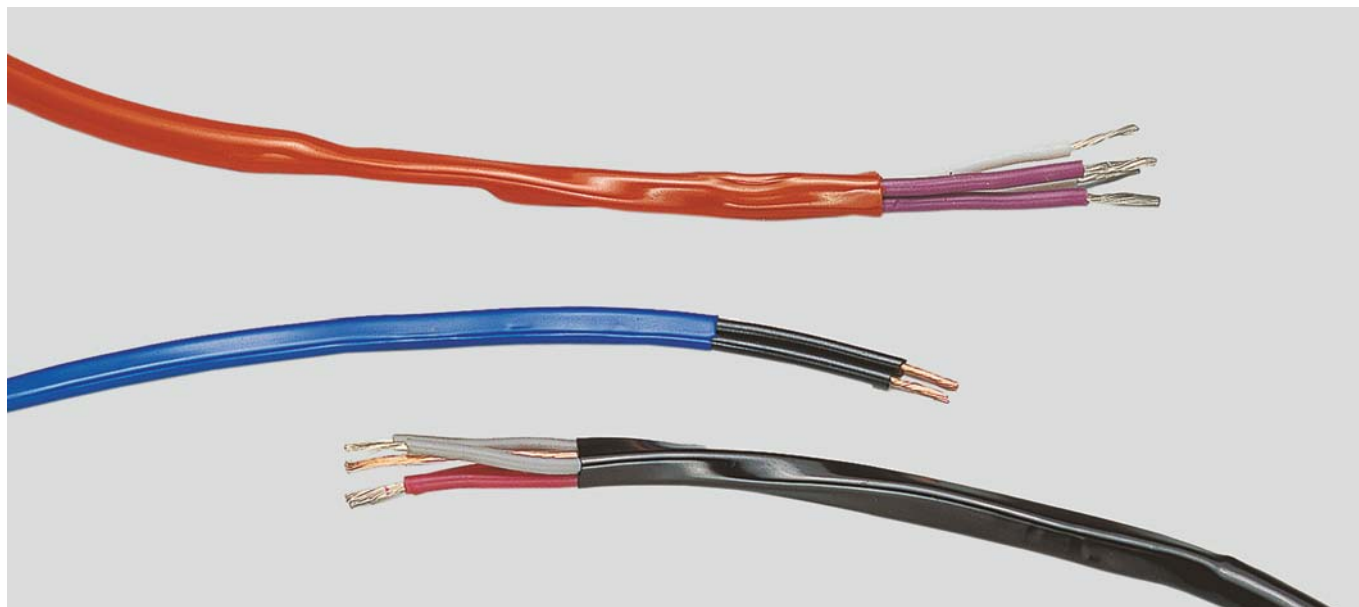
Part no.	Inner Ø mm	Wall thickness mm	PU per metre	Net EUR/100 metres at a purchase of		
				up to 100	101 - 500	501 - 1000
94741	1,0	0,4	100,0	o. r.	o. r.	o. r.
94742	2,0	0,4	100,0	o. r.	o. r.	o. r.
97203	3,0	0,4	100,0	o. r.	o. r.	o. r.
97426	4,0	0,5	100,0	o. r.	o. r.	o. r.
97427	5,0	0,6	100,0	o. r.	o. r.	o. r.
97757	6,0	0,6	100,0	o. r.	o. r.	o. r.
94743	8,0	0,7	100,0	o. r.	o. r.	o. r.
94744	10,0	0,7	50,0	o. r.	o. r.	o. r.
94745	12,0	0,8	50,0	o. r.	o. r.	o. r.
94746	14,0	0,8	50,0	o. r.	o. r.	o. r.
94747	16,0	0,8	50,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SCH Heat-shrink tubing 2:1

PVC



## SCH

PVC shrink tubing for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PVC

Colour: black

Flammability acc. to UL 94: V0

- silicone-free

## Note

**Attention:** Do not store tubes at temperatures over 18°C! Otherwise properties will be changed! Longitude shrinkage approx. 20-30% The colours orange, yellow, white, blue, green, brown, red are available on request.

## Technical data

Temperature range: -20°C up to +90°C

## Black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Net EUR/100 metres at a purchase of		
					up to 100	101 - 500	501 - 1000
91300	2,5	0,2	1,2	100,0	o. r.	o. r.	o. r.
91301	4,0	0,25	2,0	100,0	o. r.	o. r.	o. r.
91302	6,0	0,25	3,0	100,0	o. r.	o. r.	o. r.
91303	7,0	0,25	4,0	100,0	o. r.	o. r.	o. r.
91304	11,0	0,3	6,0	100,0	o. r.	o. r.	o. r.
91305	14,0	0,3	8,0	100,0	o. r.	o. r.	o. r.
91306	17,0	0,4	10,0	100,0	o. r.	o. r.	o. r.
91307	20,0	0,5	13,0	100,0	o. r.	o. r.	o. r.
91308	25,0	0,5	16,0	50,0	o. r.	o. r.	o. r.
91309	31,0	0,5	20,0	50,0	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# HSB - Boxes Heat shrink 2:1

Polyolefin



## HSB boxes

Polyolefin shrink tube for repairing insulation and sealing electrical components.

## Material

PO (Polyolefin)

## Technical data

Temperature range: -55°C up to +125°C

## Note

Form of shipment: HSB box  
Other colours on request.

### Black

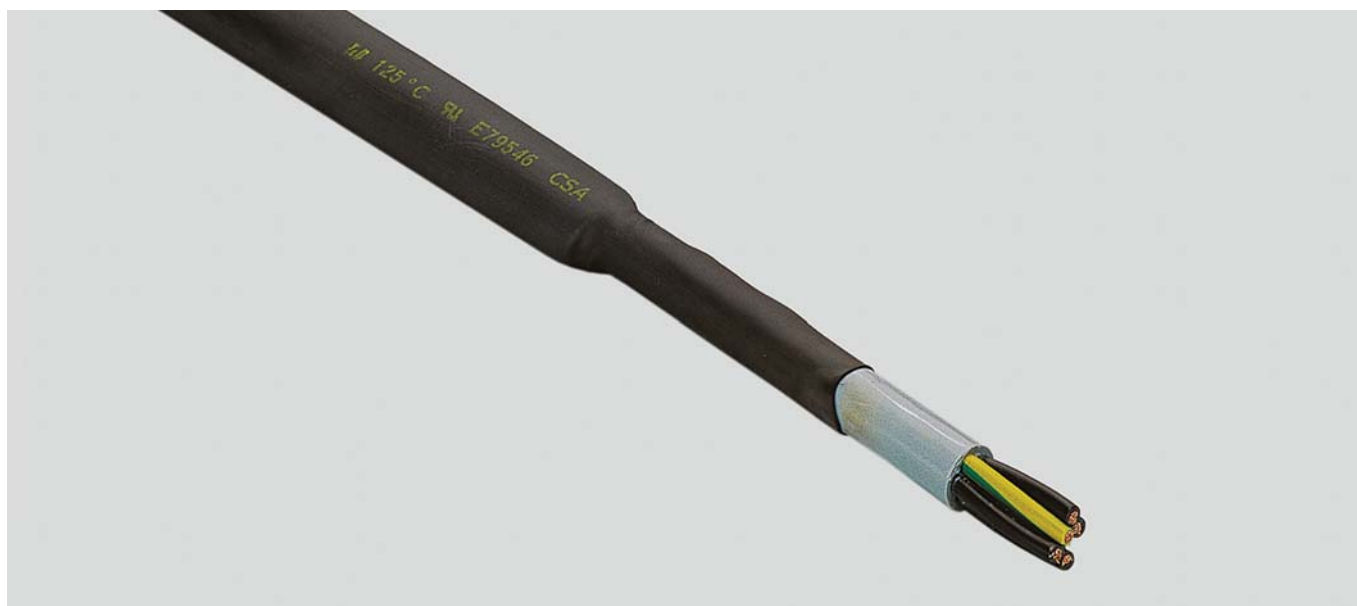
Part no.	Type T & B	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/item at a purchase of		
							up to 5	6 - 10	11 - 20
91321	HSB 46	1,2	0,4	0,6	12,0	1	o. r.	o. r.	o. r.
91322	HSB 63	1,6	0,4	0,8	12,0	1	o. r.	o. r.	o. r.
91323	HSB 93	2,4	0,5	1,2	11,5	1	o. r.	o. r.	o. r.
91324	HSB 125	3,2	0,5	1,6	11,5	1	o. r.	o. r.	o. r.
91325	HSB 187	4,7	0,5	2,4	9,5	1	o. r.	o. r.	o. r.
91326	HSB 250	6,4	0,6	3,2	7,5	1	o. r.	o. r.	o. r.
91327	HSB 375	9,5	0,6	4,7	6,5	1	o. r.	o. r.	o. r.
91328	HSB 500	12,7	0,7	6,4	6,0	1	o. r.	o. r.	o. r.
91329	HSB 750	19,1	0,7	9,5	5,0	1	o. r.	o. r.	o. r.
91330	HSB 1000	25,4	0,8	12,7	3,3	1	o. r.	o. r.	o. r.

### Transparent

Part no.	Type T & B	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/item at a purchase of		
							up to 5	6 - 10	11 - 20
98519	HSB 46-C	1,2	0,4	0,6	12,0	1	o. r.	o. r.	o. r.
97085	HSB 63-C	1,6	0,4	0,8	12,0	1	o. r.	o. r.	o. r.
96277	HSB 93-C	2,4	0,5	1,2	11,5	1	o. r.	o. r.	o. r.
97485	HSB 125-C	3,2	0,5	1,6	11,5	1	o. r.	o. r.	o. r.
96687	HSB 187-C	4,7	0,5	2,4	9,5	1	o. r.	o. r.	o. r.
96830	HSB 250-C	6,4	0,6	3,2	7,5	1	o. r.	o. r.	o. r.
96761	HSB 375-C	9,5	0,6	4,7	6,5	1	o. r.	o. r.	o. r.
96752	HSB 500-C	12,7	0,7	6,4	6,0	1	o. r.	o. r.	o. r.
96751	HSB 750-C	19,1	0,7	9,5	5,0	1	o. r.	o. r.	o. r.
97107	HSB 1000-C	25,4	0,8	12,7	3,3	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request



### CMP

Polyolefin shrink tube for repairing insulation and sealing electrical components.

### Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

### Material

PO (Polyolefin)

Colour: black

### Note

Form of shipment:  
CMP box (1.2m sections) (25 sections = 30.5m;  
10 sections = 12.2m)  
CMP rolls

### Technical data

Temperature range: -55°C up to +125°C

### Box

Part no.	Type T & B	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/unit at a purchase of		
							up to 5	6 - 10	11 - 20
91290	CMP 46-0-A	1,2	0,2	0,6	30,5	1	o. r.	o. r.	o. r.
91291	CMP 63-0-A	1,6	0,2	0,8	30,5	1	o. r.	o. r.	o. r.
91292	CMP 93-0-A	2,4	0,25	1,2	30,5	1	o. r.	o. r.	o. r.
91293	CMP 125-0-A	3,2	0,25	1,6	30,5	1	o. r.	o. r.	o. r.
91294	CMP 187-0-A	4,7	0,25	2,4	30,5	1	o. r.	o. r.	o. r.
91295	CMP 250-0-A	6,4	0,3	3,2	30,5	1	o. r.	o. r.	o. r.
91296	CMP 375-0-A	9,5	0,3	4,8	30,5	1	o. r.	o. r.	o. r.
91297	CMP 500-0-A	12,7	0,3	6,4	30,5	1	o. r.	o. r.	o. r.
91298	CMP 750-0-A	19,1	0,4	9,5	12,2	1	o. r.	o. r.	o. r.
91299	CMP 1000-0-A	25,4	0,45	12,7	12,2	1	o. r.	o. r.	o. r.

### Coil

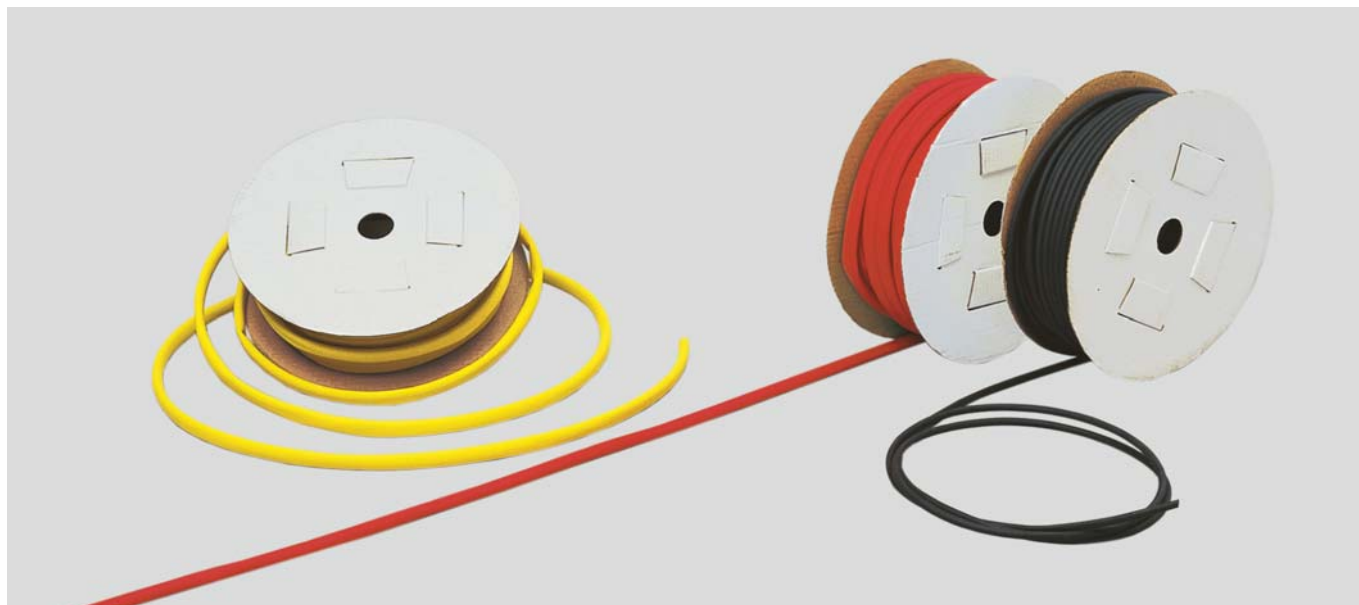
Part no.	Type T & B	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 metres at a purchase of		
							up to 100	101 - 500	501 - 1000
91331	CMP 46-0-BG	1,2	0,2	0,6	300,0	-	o. r.	o. r.	o. r.
91332	CMP 63-0-BG	1,6	0,2	0,8	300,0	-	o. r.	o. r.	o. r.
91333	CMP 93-0-BG	2,4	0,25	1,2	300,0	-	o. r.	o. r.	o. r.
91334	CMP 125-0-BG	3,2	0,25	1,6	300,0	-	o. r.	o. r.	o. r.
91335	CMP 187-0-BG	4,7	0,25	2,4	300,0	-	o. r.	o. r.	o. r.
91336	CMP 250-0-BG	6,4	0,3	3,2	300,0	-	o. r.	o. r.	o. r.
91337	CMP 375-0-BG	9,5	0,3	4,8	150,0	-	o. r.	o. r.	o. r.
91338	CMP 500-0-BG	12,7	0,3	6,4	100,0	-	o. r.	o. r.	o. r.
91339	CMP 750-0-BG	19,1	0,4	9,5	50,0	-	o. r.	o. r.	o. r.
91340	CMP 1000-0-BG	25,4	0,45	12,7	50,0	-	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SPSP - spools Heat shrink 2:1

Polyolefin



## SPSP spools

Polyolefin shrink tube for repairing insulation and sealing electrical components.

## Material

PO (Polyolefin)

## Technical data

Temperature range: -55°C up to +135°C

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Note

Replace the "x" in the table with the following numbers to obtain the product number of your required colour.

Colour code:

0=white

1=blue

2=yellow

3=red

4=transparent

6=brown

7=orange

8=grey

9=green

## Black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 metres at a purchase of		
						up to 5	6 - 10	11 - 20
91777	1,2	0,4	0,6	20,0	1	o. r.	o. r.	o. r.
91778	1,6	0,4	0,8	20,0	1	o. r.	o. r.	o. r.
91779	2,4	0,5	1,2	20,0	1	o. r.	o. r.	o. r.
91780	3,2	0,5	1,6	20,0	1	o. r.	o. r.	o. r.
91781	4,8	0,5	2,4	20,0	1	o. r.	o. r.	o. r.
91782	6,4	0,6	3,2	10,0	1	o. r.	o. r.	o. r.
91783	9,5	0,6	4,7	10,0	1	o. r.	o. r.	o. r.
91784	12,7	0,6	6,4	10,0	1	o. r.	o. r.	o. r.
91785	19,1	0,8	9,5	10,0	1	o. r.	o. r.	o. r.
91786	25,4	0,9	12,7	10,0	1	o. r.	o. r.	o. r.

## Green/yellow

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 metres at a purchase of		
						up to 5	6 - 10	11 - 20
92335	2,4	0,5	1,2	20,0	1	o. r.	o. r.	o. r.
92345	3,2	0,5	1,6	20,0	1	o. r.	o. r.	o. r.
92355	4,8	0,5	2,4	20,0	1	o. r.	o. r.	o. r.
92365	6,4	0,6	3,2	10,0	1	o. r.	o. r.	o. r.
92375	9,5	0,6	4,7	10,0	1	o. r.	o. r.	o. r.
92385	12,7	0,6	6,4	10,0	1	o. r.	o. r.	o. r.
92395	19,1	0,8	9,5	10,0	1	o. r.	o. r.	o. r.
92405	25,4	0,9	12,7	10,0	1	o. r.	o. r.	o. r.

Continuation ►



# SPSP - spools Heat shrink 2:1



Polyolefin

Coloured

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 metres at a purchase of		
						up to 5	6 - 10	11 - 20
9231x	1,2	0,4	0,6	20,0	1	o. r.	o. r.	o. r.
9232x	1,6	0,4	0,8	20,0	1	o. r.	o. r.	o. r.
9233x	2,4	0,5	1,2	20,0	1	o. r.	o. r.	o. r.
9234x	3,2	0,5	1,6	20,0	1	o. r.	o. r.	o. r.
9235x	4,8	0,5	2,4	20,0	1	o. r.	o. r.	o. r.
9236x	6,4	0,6	3,2	10,0	1	o. r.	o. r.	o. r.
9237x	9,5	0,6	4,7	10,0	1	o. r.	o. r.	o. r.
9238x	12,7	0,6	6,4	10,0	1	o. r.	o. r.	o. r.
9239x	19,1	0,8	9,5	10,0	1	o. r.	o. r.	o. r.
9240x	25,4	0,9	12,7	10,0	1	o. r.	o. r.	o. r.

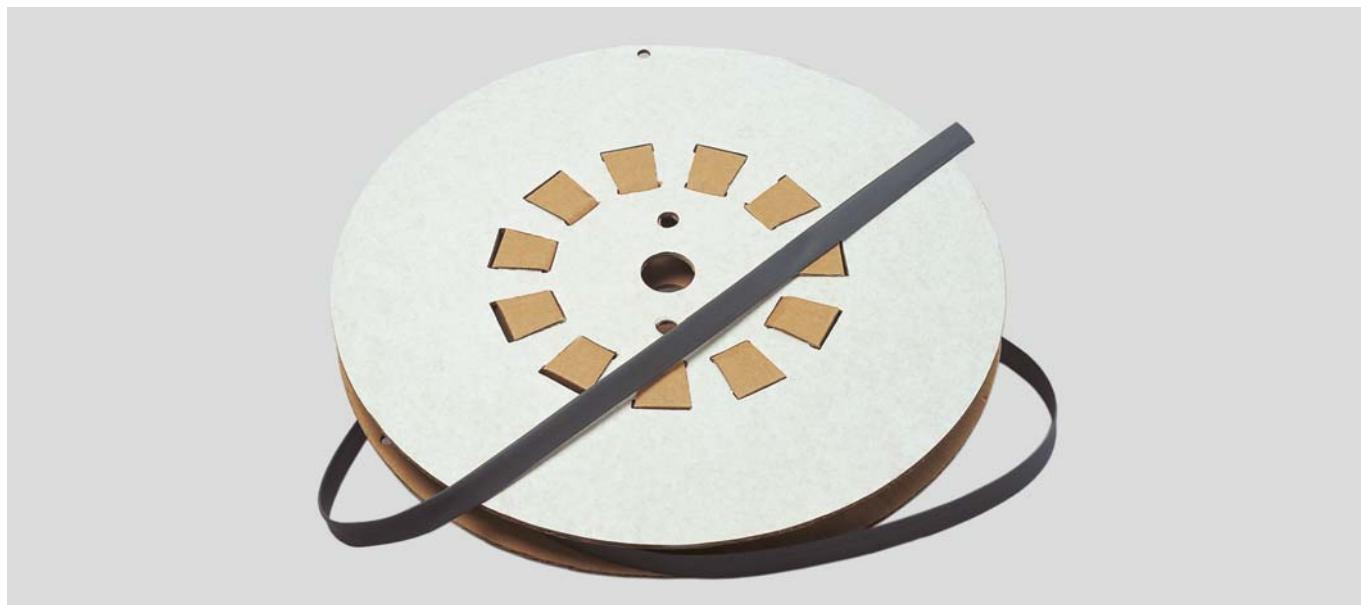
Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SPRO - rolls Heat shrink 2:1



Polyolefin



## SPRO rolls 2:1

Polyolefin shrink tube for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin)

## Note

Replace the "x" in the table with the numbers figures to obtain the product number of your required colour.

Colour code:

0=white

1=blue

2=yellow

3=red

4=transparent

6=brown

7=orange

8=grey

9=green

## Technical data

Temperature range: -55°C up to +135°C

## Black

Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
91788	1,2	0,4	0,6	150,0	-	O. r.	O. r.	O. r.
91789	1,6	0,4	0,8	150,0	-	O. r.	O. r.	O. r.
91790	2,4	0,5	1,2	150,0	-	O. r.	O. r.	O. r.
91791	3,2	0,5	1,6	150,0	-	O. r.	O. r.	O. r.
91792	4,8	0,5	2,4	75,0	-	O. r.	O. r.	O. r.
91793	6,4	0,6	3,2	75,0	-	O. r.	O. r.	O. r.
91794	9,5	0,6	4,7	75,0	-	O. r.	O. r.	O. r.
91795	12,7	0,6	6,4	50,0	-	O. r.	O. r.	O. r.
90058	16,0	0,6	8,0	50,0	-	O. r.	O. r.	O. r.
91796	19,1	0,8	9,5	30,0	-	O. r.	O. r.	O. r.
91797	25,4	0,9	12,7	30,0	-	O. r.	O. r.	O. r.
904771	32,0	0,9	16,0	30,0	-	O. r.	O. r.	O. r.
91798	38,1	1,0	19,0	30,0	-	O. r.	O. r.	O. r.
91799	50,8	1,1	25,4	30,0	-	O. r.	O. r.	O. r.
96828	76,2	1,3	38,1	15,0	-	O. r.	O. r.	O. r.
96929	101,0	1,4	50,8	15,0	-	O. r.	O. r.	O. r.

Continuation ►

# SPRO - rolls Heat shrink 2:1



Polyolefin

Green/yellow

Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
92435	2,4	0,5	1,2	150,0	-	o. r.	o. r.	o. r.
92445	3,2	0,5	1,6	150,0	-	o. r.	o. r.	o. r.
92455	4,8	0,5	2,4	75,0	-	o. r.	o. r.	o. r.
92465	6,4	0,6	3,2	75,0	-	o. r.	o. r.	o. r.
92475	9,5	0,6	4,7	75,0	-	o. r.	o. r.	o. r.
92485	12,7	0,6	6,4	100,0	-	o. r.	o. r.	o. r.
92495	19,1	0,8	9,5	30,0	-	o. r.	o. r.	o. r.
92505	25,4	0,9	12,7	30,0	-	o. r.	o. r.	o. r.
92515	38,1	1,0	19,0	30,0	-	o. r.	o. r.	o. r.
92425	50,8	1,0	25,4	30,0	-	o. r.	o. r.	o. r.

Coloured

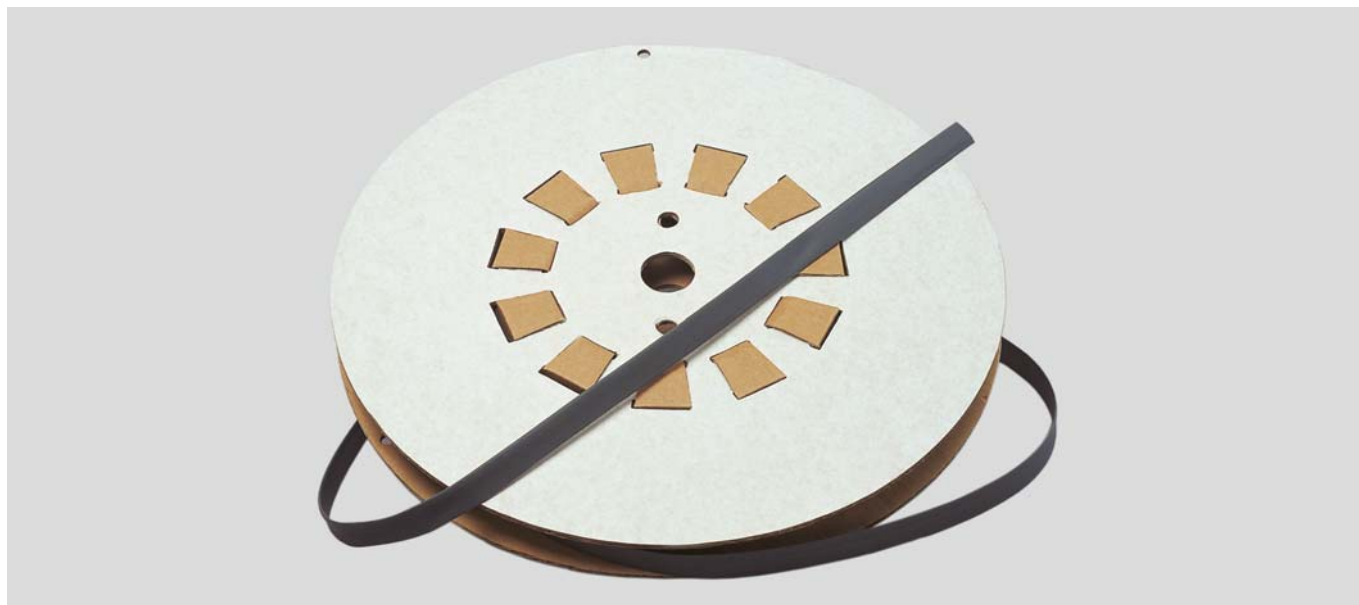
Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
9241x	1,2	0,4	0,6	150,0	-	o. r.	o. r.	o. r.
9242x	1,6	0,4	0,8	150,0	-	o. r.	o. r.	o. r.
9243x	2,4	0,5	1,2	150,0	-	o. r.	o. r.	o. r.
9244x	3,2	0,5	1,6	150,0	-	o. r.	o. r.	o. r.
9245x	4,8	0,5	2,4	75,0	-	o. r.	o. r.	o. r.
9246x	6,4	0,6	3,2	75,0	-	o. r.	o. r.	o. r.
9247x	9,5	0,6	4,7	75,0	-	o. r.	o. r.	o. r.
9248x	12,7	0,6	6,4	100,0	-	o. r.	o. r.	o. r.
9249x	19,1	0,8	9,5	30,0	-	o. r.	o. r.	o. r.
9250x	25,4	0,9	12,7	30,0	-	o. r.	o. r.	o. r.
9251x	38,1	1,0	19,0	30,0	-	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SPRO - rolls Heat shrink 3:1

Polyolefin



## SPRO rolls 3:1

Polyolefin shrink tube for repairing insulation and sealing electrical components. Shrink rate 3:1

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin)

## Note

Replace the "x" in the table with the following numbers to obtain the product number of your required colour.

Colour code:

1=blue

2=yellow

3=red

9=green

## Technical data

Temperature range: -55°C up to +135°C

### Black

Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
903035	6,4	0,65	2,0	75,0	-	o. r.	o. r.	o. r.
903045	9,5	0,75	3,0	75,0	-	o. r.	o. r.	o. r.
903055	12,7	0,75	4,0	50,0	-	o. r.	o. r.	o. r.
903065	19,0	0,85	6,0	30,0	-	o. r.	o. r.	o. r.
903075	25,4	1,0	8,0	30,0	-	o. r.	o. r.	o. r.
903085	39,0	1,15	13,0	30,0	-	o. r.	o. r.	o. r.

### Green/yellow

Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
903093	6,4	0,65	2,0	75,0	-	o. r.	o. r.	o. r.
903094	9,5	0,75	3,0	75,0	-	o. r.	o. r.	o. r.
903095	12,7	0,75	4,0	50,0	-	o. r.	o. r.	o. r.
903096	19,0	0,85	6,0	30,0	-	o. r.	o. r.	o. r.
903097	25,4	1,0	8,0	30,0	-	o. r.	o. r.	o. r.
903098	39,0	1,15	13,0	30,0	-	o. r.	o. r.	o. r.

### Coloured

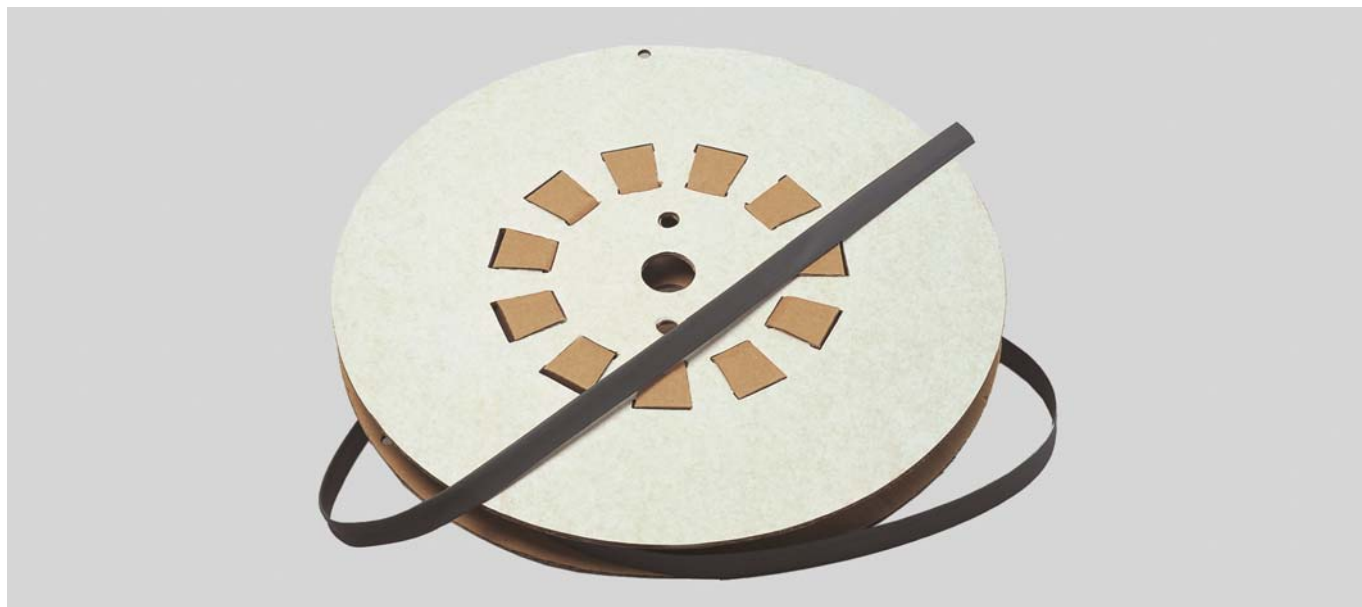
Part no. Roll	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
90303x	6,4	0,65	2,0	75,0	-	o. r.	o. r.	o. r.
90304x	9,5	0,75	3,0	75,0	-	o. r.	o. r.	o. r.
90305x	12,7	0,75	4,0	50,0	-	o. r.	o. r.	o. r.
90306x	19,0	0,85	6,0	30,0	-	o. r.	o. r.	o. r.
90307x	25,4	1,0	8,0	30,0	-	o. r.	o. r.	o. r.
90308x	39,0	1,15	13,0	30,0	-	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# HFS Heat-shrink 2:1 - halogen free

Polyolefin



## HFS rolls

Halogen-free polyolefin shrink tube for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Automation technology
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin)

Colour: black

- halogen-free

## Technical data

Temperature range: -55°C up to +105°C

### Black

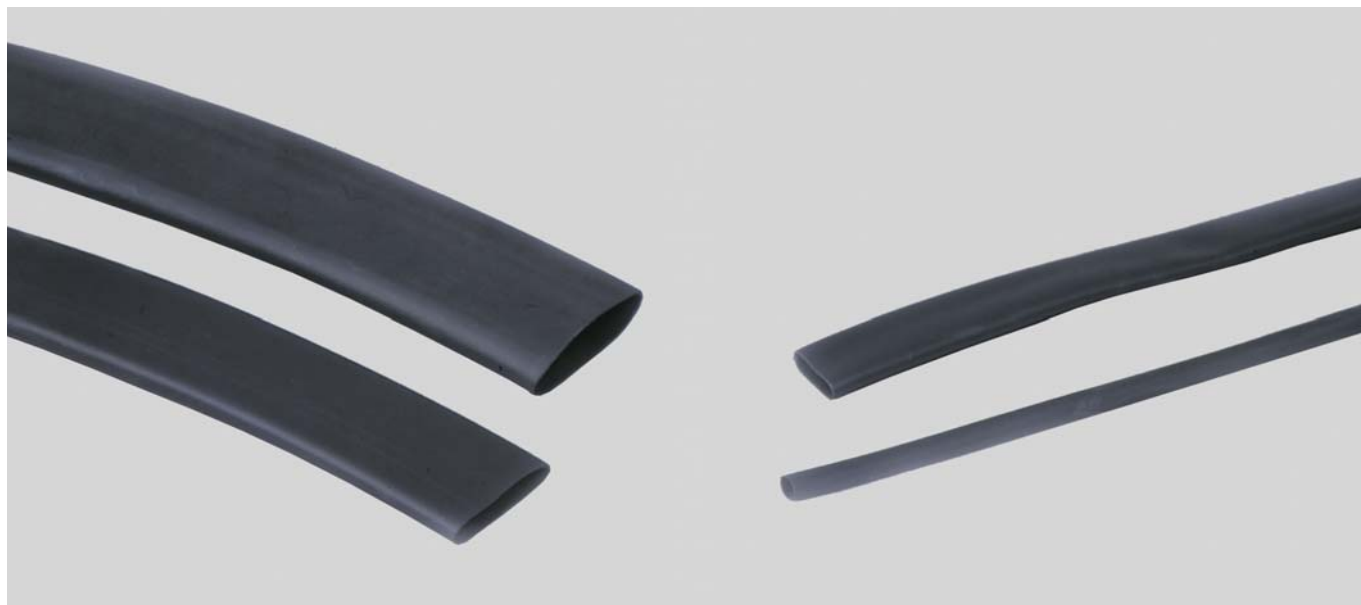
Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 items at a purchase of		
						up to 100	101 - 500	501 - 1000
99551	1,6	0,45	0,8	150,0	-	o. r.	o. r.	o. r.
99552	2,4	0,51	1,2	150,0	-	o. r.	o. r.	o. r.
99553	3,2	0,51	1,6	150,0	-	o. r.	o. r.	o. r.
99554	4,8	0,51	2,4	75,0	-	o. r.	o. r.	o. r.
99555	6,4	0,64	3,2	75,0	-	o. r.	o. r.	o. r.
99556	9,5	0,64	4,8	75,0	-	o. r.	o. r.	o. r.
99557	12,7	0,64	6,4	50,0	-	o. r.	o. r.	o. r.
99558	16,0	0,64	8,0	50,0	-	o. r.	o. r.	o. r.
99559	19,0	0,76	9,5	30,0	-	o. r.	o. r.	o. r.
99560	25,4	0,89	12,7	30,0	-	o. r.	o. r.	o. r.
99561	32,0	0,89	16,0	30,0	-	o. r.	o. r.	o. r.
99562	38,1	1,02	19,0	30,0	-	o. r.	o. r.	o. r.
99563	50,8	1,14	25,4	30,0	-	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SK Heat-shrink 3:1 - with interior adhesive

Polyolefin - thin - walled



## SK

Polyolefin shrink tube with internal adhesive for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin) with internal adhesive

Colour: black

## Note

Form of shipment:  
Box

## Technical data

Temperature range: -55°C up to +110°C

## Black

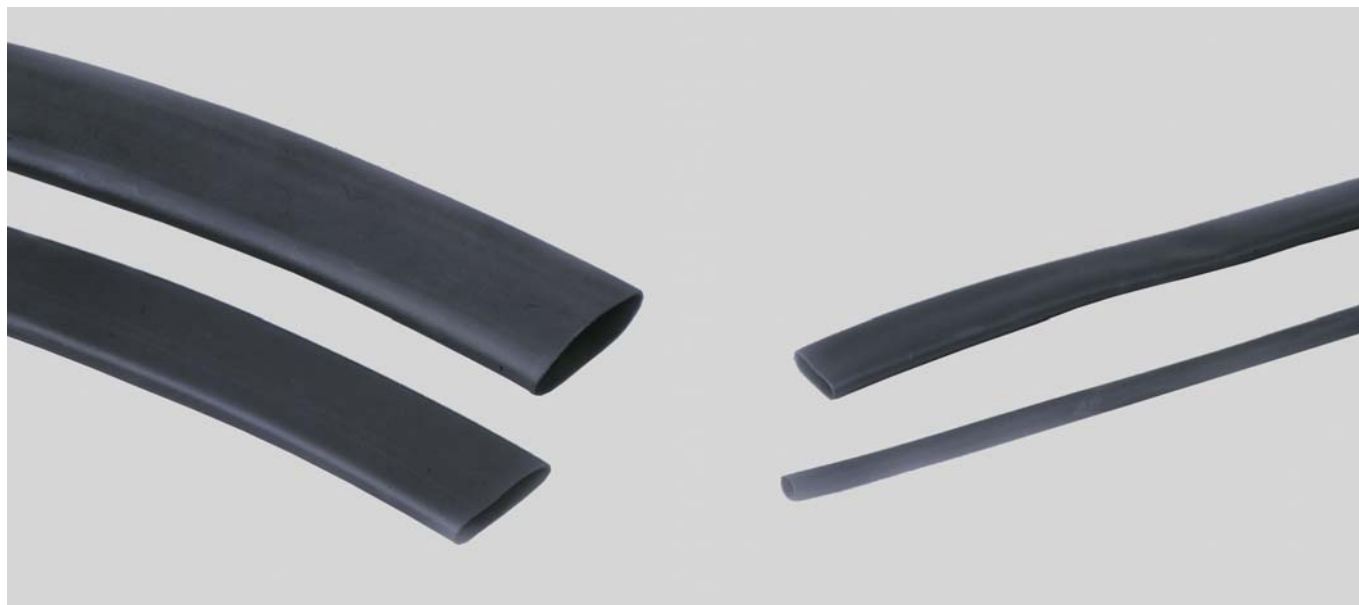
Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/item at a purchase of		
						up to 5	6 - 10	11 - 20
98258	3,2	1,0	1,0	5,0	1	o. r.	o. r.	o. r.
98259	6,4	1,0	2,0	3,5	1	o. r.	o. r.	o. r.
98260	9,5	1,5	3,2	3,0	1	o. r.	o. r.	o. r.
98261	12,7	1,8	4,1	2,5	1	o. r.	o. r.	o. r.
98262	19,1	1,8	6,4	2,0	1	o. r.	o. r.	o. r.
98263	25,4	2,5	8,1	1,5	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SK-M Shrink on tube 3:1 with interior adhesive

Polyolefin - medium walled



## SK-M

Polyolefin shrink tube with internal adhesive for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin) with internal adhesive

Colour: black

## Note

Form of shipment:  
1.2 m rods

## Technical data

Temperature range: -55°C up to +110°C

## Black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 items at a purchase of		
						up to 5	6 - 10	11 - 20
99788	10,2	2,0	3,8	rods of 1,22m	1	o. r.	o. r.	o. r.
99789	19,1	2,0	5,6	rods of 1,22m	1	o. r.	o. r.	o. r.
99790	27,9	2,0	10,2	rods of 1,22m	1	o. r.	o. r.	o. r.
99791	33,0	2,0	10,2	rods of 1,22m	1	o. r.	o. r.	o. r.
99792	38,1	2,0	12,7	rods of 1,22m	1	o. r.	o. r.	o. r.
99793	43,2	2,0	12,7	rods of 1,22m	1	o. r.	o. r.	o. r.
99794	52,1	2,0	19,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99795	69,9	2,0	25,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99796	88,9	2,4	30,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99797	119,4	2,7	40,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99798	152,0	2,8	48,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99799	170,2	2,8	58,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99678	228,6	3,0	77,0	rods of 1,22m	1	o. r.	o. r.	o. r.

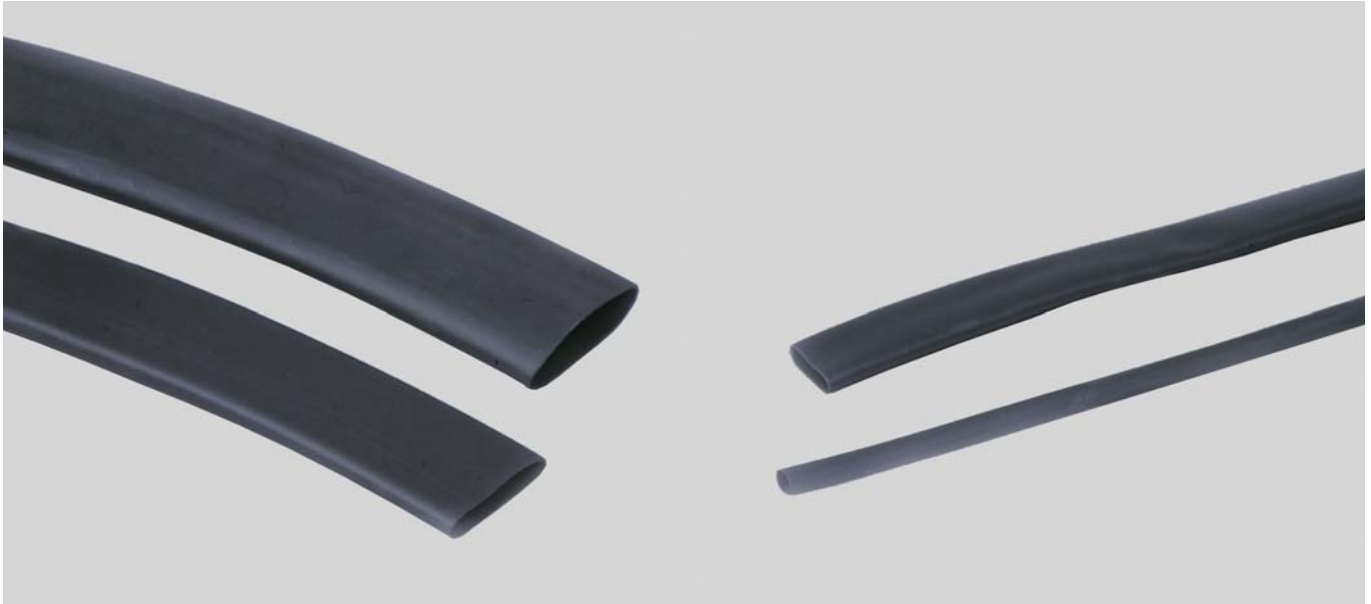
Dimensions and specifications may be changed without prior notice.

o. r. = on request



# SK-D Heat shrink 3:1 - with interior adhesive

Polyolefin - thick walled



## SK-D

Polyolefin shrink tube with internal adhesive for repairing insulation and sealing electrical components.

For the protection of cable sleeves and terminations for low-voltage applications (600V).

Good protection against impact and abrasion.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin) with internal adhesive

Colour: black

- halogen-free

## Note

Form of shipment:

1.2 m rods

Aproval:

UR-listed up to size 68,1 mm

## Technical data

Temperature range: -55°C up to +110°C

## black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 items at a purchase of		
						up to 5	6 - 10	11 - 20
905344	8,9	1,8	3,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905335	13,0	2,4	4,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905336	19,1	2,4	6,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905337	27,9	3,0	8,9	rods of 1,22m	1	o. r.	o. r.	o. r.
905338	38,1	4,1	11,9	rods of 1,22m	1	o. r.	o. r.	o. r.
905339	50,8	4,1	16,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905340	68,1	4,1	22,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905731	89,9	4,1	30,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905732	119,9	2,0	39,9	rods of 1,22m	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SVRO Heat shrink 2:1 - high resistant

FKM



## SVRO

FKM shrink tube to protect against aggressive media.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

FKM

Colour: black

## Properties

Weather, flame and chemical resistant

## Note

MIL-I-23053

## Technical data

Temperature range: -55°C up to +220°C

## Black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/ 100 metres at a purchase of		
						up to 100	101 - 500	501 - 1000
96796	3,2	0,8	1,6	50,0	-	o. r.	o. r.	o. r.
97385	4,8	0,9	2,4	50,0	-	o. r.	o. r.	o. r.
97774	6,4	0,9	3,2	50,0	-	o. r.	o. r.	o. r.
91165	9,5	1,0	4,8	50,0	-	o. r.	o. r.	o. r.
91166	12,7	1,2	6,4	30,0	-	o. r.	o. r.	o. r.
93690	19,0	1,4	9,5	30,0	-	o. r.	o. r.	o. r.
93691	25,4	1,8	12,7	30,0	-	o. r.	o. r.	o. r.
93692	38,0	2,4	19,0	15,0	-	o. r.	o. r.	o. r.
93693	50,8	2,8	25,4	15,0	-	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# EKI End caps 2:1

Polyethylene



## EKI

End caps with internal adhesive protect cable ends from the ingress of water.

## Material

Polyethylene

Colour: black

## Technical data

Temperature range: -40°C up to +70°C

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Properties

Weather-resistant

## Black

Part no.	Inner Ø before shrinkage mm	Length mm	Inner Ø after shrinkage mm	Unit	Net EUR/100 items at a purchase of		
					up to 100	101 - 500	501 - 1000
97642	12,0	35	4,0	10	o. r.	o. r.	o. r.
97782	13,0	30	6,5	10	o. r.	o. r.	o. r.
98264	22,0	60	8,0	10	o. r.	o. r.	o. r.
97643	20,0	65	10,0	10	o. r.	o. r.	o. r.
97644	20,0	125	9,0	10	o. r.	o. r.	o. r.
97783	40,0	85	15,0	10	o. r.	o. r.	o. r.
97645	35,0	90	17,5	5	o. r.	o. r.	o. r.
97812	50,0	125	25,0	5	o. r.	o. r.	o. r.
97648	55,0	125	22,0	2	o. r.	o. r.	o. r.
97784	75,0	120	43,0	2	o. r.	o. r.	o. r.
97649	75,0	120	34,0	2	o. r.	o. r.	o. r.
97650	75,0	200	34,0	2	o. r.	o. r.	o. r.
98265	100,0	120	42,0	2	o. r.	o. r.	o. r.
97652	100,0	130	59,0	1	o. r.	o. r.	o. r.
97651	100,0	225	59,0	1	o. r.	o. r.	o. r.
97653	115,0	140	59,0	1	o. r.	o. r.	o. r.
98266	125,0	130	70,0	1	o. r.	o. r.	o. r.
97654	145,0	155	71,0	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

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