

**SHRINK**  
TECH

## Product catalogue

- Heat shrink tube
- Isolating tube
- Silicon tube
- Fiberglass tube
- Marking system
- Handheld devices

## Notation:



Shrinkage temperature



Shrinkage ratio



Application temperature



Halogen-free product. It does not emit halogen while burning.



Flame retardant product



UV stabilised



Free from toxic heavy metal compounds  
(Restriction on Hazardous Substance)

## Dear Partner,

ShrinkTech S.r.o. was established in 2008 in Slovakia with the purpose of supporting our customers with our professional experience, expertise in order to contribute to your and your company's success actively. Our company concentrates on electrical insulations, out of which we especially market heat-shrink tubing and silicone products for industrial use. We are expanding the range of products offered continuously in order to meet the needs of all of our partners, therefore serving you even more efficiently. We emphasize that the customer's requirements must be matched on the highest standards. Since we know that nowadays the competition between companies burdens the managers when they have to take decisions, which will affect the process or economy of production.

We are ready to support our partners with our professional advices, competitive prices and flexible, excellent service.

Should you have any questions, we will be glad to help you, and we hope to welcome you among our partners in the near future!

Yours sincerely,

**The ShrinkTech Team**

## Quality policy

Nowadays the environmental protection is a very important factor in the whole world, therefore we only offer products made of quality materials, which are environmentally friendly. Protection of the environment is not only vital in the case of these products, but we are trying to represent this view in the everyday life. Our products are completely free of all heavy metal compounds. Furthermore, all of our products are tested and have the necessary certifications.

## Product range:

In our brochure we display a wide selection of shrink tubes, which includes some products that can satisfy extreme needs such as extra high temperature shrinking or extra thin wall. In case you cannot find the item you need, please get in touch with us in order to assist you personally.

## ShrinkTech Heat shrink product list

Name	Description	Material	Shrinkratio
STS	125°C polyolefin tubing excellent general properties	Poliiolefin	2:1
STYG	Yellow-green high quality polyolefin tubing	Poliiolefin	2:1
ST135	135°C very flexible, high quality polyolefin tubing	Poliiolefin	2:1
ST3X	Offering 3:1 shrinking ratio	Poliiolefin	3:1
ST4X	Offering 4:1 shrinking ratio	Poliiolefin	4:1
ST3XA	Dual wall tubing with hot-melt adhesive, 3:1 shrink ratio	Poliiolefin	3:1
ST4XA	Dual wall tubing with hot-melt adhesive, 4:1 shrink ratio	Poliiolefin	4:1
STL	Very low shrinking temperature and high flexibility	Poliiolefin	2:1
STHF	Halogen-free heat shrink tube	Poliiolefin	2:1
STU	125°C Ultra thin wall polyolefin tubing	Poliiolefin	2:1
ST150	Shiny (black) or Crystal high performance tubing in PVDF	Kynar	2:1
ST175	PVDF tubing, high performance tubing	Kynar	2:1
ST200	Very high performance elastomeric tubing	Viton	2:1
STDR	Diesel resistant tubing for high performance cabling	Fruoroelastomer	2:1
STCA	Shiny surface (black) tube	Poliiolefin	2:1
STM	Medium wall heat shrink tube without adhesive	Poliiolefin	3:1
STMA	Medium wall heat shrink tube with adhesive	Poliiolefin	3:1
STH	Heavy wall heat shrink tube without adhesive	Poliiolefin	3:1
STHA	Heavy wall heat shrink tube With adhesive	Poliiolefin	3:1
STEC	Cable End caps for various cable applications	Poliiolefin	3:1
STW	Heat Shrinkable Wraparound Sleeves with hot melt adhesive	Poliiolefin	2:1
STB	High Voltage Insulating Tubes	Poliiolefin	3:1
STP	Printable heat shrinktube	Poliiolefin	2:1 3:1

## ShrinkTech Heat shrink product list

Name	Temperature	Halogenfree	RoHS	UL, VW-1	Flame retardant	Water proof	Page
STS	125°C	✗	✓	✓	✓	✗	6
STYG	125°C	✗	✓	✓	✓	✗	7
ST135	135°C	✗	✓	✓	✓	✗	8
ST3X	125°C	✗	✓	✓	✓	✗	9
ST4X	125°C	✗	✓	✓	✓	✗	9
ST3XA	125°C	✓	✓	✓	✓	✓	10
ST4XA	125°C	✓	✓	✓	✓	✓	10
STL	125°C	✓	✓	✗	✗	✗	11
STHF	105°C	✓	✓	✓	✓	✗	12
STU	125°C	✗	✓	✓	✓	✗	13
ST150	150°C	✗	✓	✓	✓	✗	14
ST175	175°C	✗	✓	✓	✓	✗	15
ST200	200°C	✗	✓	✓	✓	✗	16
STDR	150°C	✗	✓	✓	✓	✗	17
STCA	105°C	✗	✓	✓	✓	✗	18
STM	110°C	✓	✓	✗	✗	✗	19
STMA	110°C	✓	✓	✗	✗	✓	19
STH	110°C	✓	✓	✗	✗	✗	20
STHA	110°C	✓	✓	✗	✗	✓	20
STEC	110°C	✓	✓	✗	✗	✓	21
STW	50°C	✓	✓	✗	✗	✓	22
STB	110°C	✓	✓	✗	✗	✗	23
STP	125–135°C	✗	✓	✓	✓	✗	29–32

# STS

ShrinkTech Thin wall heat shrink tubing for universal use

Insulating, identifying cables without changing the wire's diameter. The low shrink temperature recovery reduces installation time and eliminates heat damage on the application.



- Flexible
- UL224, 125°C, VW-1
- Environmental friendly, free from toxic heavy metal compounds
- **Material:** modified polyolefin
- **Colour:** black, red, green, blue, brown, white, yellow, transparent
- **Packaging:** spool or per meter



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STS-012	1.2	0.6	0.3	200	O
STS-016	1.6	0.8	0.3	200	O
STS-024	2.4	1.2	0.4	200	O
STS-032	3.2	1.6	0.5	200	O
STS-048	4.8	2.4	0.5	100	O
STS-064	6.4	3.2	0.6	100	O
STS-095	9.5	4.8	0.6	100	F
STS-127	12.7	6.4	0.6	50	F
STS-190	19.0	9.5	0.8	30	F
STS-254	25.4	12.7	0.9	30	F
STS-318	31.8	15.9	0.9	30	F
STS-381	38.1	19.0	1.0	30	F
STS-508	50.8	25.4	1.1	30	F

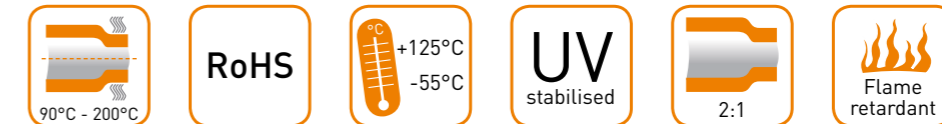
# STYG

ShrinkTech Yellow-Green

Used for electrical grounding, protecting and insulating wires and for identifying earth cables.



- **Material:** modified polyolefin
- **Colour:** Yellow-green striped
- **Packaging:** spool or per meter
- UL 224, 125 °C, VW-1
- Flexible
- Flame retardant
- Environmental friendly, free from toxic heavy metal compounds



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STYG-012	1.2	0.6	0.3	200	O
STYG-016	1.6	0.8	0.3	200	O
STYG-024	2.4	1.2	0.4	200	O
STYG-032	3.2	1.6	0.5	200	O
STYG-048	4.8	2.4	0.5	100	O
STYG-064	6.4	3.2	0.6	100	O
STYG-095	9.5	4.8	0.6	100	F
STYG-127	12.7	6.4	0.6	50	F
STYG-190	19.0	9.5	0.8	30	F
STYG-254	25.4	12.7	0.9	30	F
STYG-318	31.8	15.9	0.9	30	F
STYG-381	38.1	19.0	1.0	30	F
STYG-508	50.8	25.4	1.1	30	F

# ST135

ShrinkTech 135 °C

Provides excellent insulation and good mechanical strength. Perfect for insulating, coding, bundling and protecting sets of cables and connections. Recommended for electronics and automotive industries.



- Environmental friendly, free from toxic heavy metal compounds
- Highly flame retardant
- Very flexible
- UL 224, 125°C, VW-1
- MIL-I-23053 military spec.
- Resistant to common fluids and solvents

- **Material:** modified polyolefin
- **Colour:** black, transparent, other colors available on request
- **Packaging:** spool



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST135-012	1.2	0.6	0.3	200	O
ST135-016	1.6	0.8	0.3	200	O
ST135-024	2.4	1.2	0.4	200	O
ST135-032	3.2	1.6	0.5	200	O
ST135-048	4.8	2.4	0.5	100	O
ST135-064	6.4	3.2	0.6	100	O
ST135-095	9.5	4.8	0.6	100	F
ST135-127	12.7	6.4	0.6	50	F
ST135-190	19.0	9.5	0.8	30	F
ST135-254	25.4	12.7	0.9	30	F
ST135-318	31.8	15.9	0.9	30	F
ST135-381	38.1	19.0	1.0	30	F
ST135-508	50.8	25.4	1.1	30	F

# ST3X ST4X

ShrinkTech High shrink ratio tubing without adhesive



Suitable for electronics and automotive industry, where components are of irregular sizes and shapes. Provides both insulation and sealing for protected articles. Recommended for open air use as well since it is UV stabilised.

- **Material:** modified polyolefin
- **Colour:** black
- **Packaging:** spool or per meter
- Without adhesive
- UL 224, 125 °C, VW-1
- Flexible
- Flame retardant
- Environmental friendly, free from toxic heavy metal compounds



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST3X-015	1.5	0.5	0.3	150	O
ST3X-024	2.4	0.8	0.3	150	O
ST3X-030	3.0	1.0	0.4	150	O
ST3X-048	4.8	1.6	0.5	75	O
ST3X-060	6.0	2.0	0.5	75	O
ST3X-090	9.0	3.0	0.6	75	O
ST3X-120	12.0	4.0	0.6	50	F
ST3X-180	18.0	6.0	0.6	50	F
ST3X-240	24.0	8.0	0.6	30	F
ST3X-390	39.0	13.0	0.8	30	F
ST4X-0191	19.1	4.6	1.7	1.22	F
ST4X-0254	25.4	7.0	1.7	1.22	F
ST4X-0381	38.1	9.5	1.7	1.22	F
ST4X-0508	50.8	14.0	1.7	1.22	F
ST4X-0762	76.2	20.6	1.7	1.22	F
ST4X-1020	102.0	26.7	1.7	1.22	F
ST4X-1150	115.0	36.8	1.7	1.22	F

# ST3XA ST4XA

ShrinkTech Dual wall tubing with adhesive

Manufactured by co-extrusion of polyolefin and hot-melt adhesive. Suitable for electronics and automotive industry where components are of irregular sizes, shapes and protection against water and moisture are important. Provides both insulation and sealing for protected articles.



- High shrink ratio
- Flame retardant
- Waterproof
- UL 224, 125C, VW-1
- Environmental friendly, free from toxic heavy metal compounds
- Very flexible

- **Material:**  
modified polyolefin
- **Colour:**  
black
- **Packaging:**  
spool or per meter



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST3XA-030	3.0	1.0	1.0 + 0.50	150	0
ST3XA-048	4.8	1.6	1.0 + 0.50	75	0
ST3XA-060	6.0	2.0	1.0 + 0.60	75	0
ST3XA-090	9.0	3.0	1.4 + 0.60	75	0
ST3XA-120	12.0	4.0	1.6 + 0.70	50	0
ST3XA-180	18.0	6.0	2.1 + 0.80	50	0
ST3XA-240	24.0	8.0	2.5 + 1.10	30	0
ST3XA-390	39.0	13.0	2.5 + 1.20	30	0
ST4XA-040	4.0	1.0	1.0 + 0.50	150/1.22	0
ST4XA-060	6.0	1.5	1.2 + 0.60	100/1.22	0
ST4XA-080	8.0	2.0	1.6 + 0.75	50/1.22	0
ST4XA-120	12.0	3.0	1.9 + 1.00	50/1.22	0
ST4XA-160	16.0	4.0	2.1 + 1.05	25/1.22	0
ST4XA-180	18.0	4.5	2.4 + 1.20	25/1.22	0
ST4XA-240	24.0	6.0	2.5 + 1.25	25/1.22	0
ST4XA-320	32.0	8.0	2.5 + 1.25	25/1.22	0

# STL

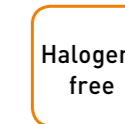
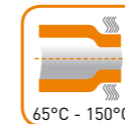
ShrinkTech Low shrink temperature tubing



Ideal for applications where heat sensitive components are used. Hence this special material starts shrinking on already 65 °C

- **Material:**  
modified polyolefin
- **Colour:**  
black
- **Packaging:**  
spools

- Halogen-free
- Flexible
- MVSS 302
- Environmental friendly, free from toxic heavy metal compounds



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STL-016	1.6	0.8	0.5	200	0
STL-024	2.4	1.2	0.5	200	0
STL-032	3.2	1.6	0.5	200	0
STL-048	4.8	2.4	0.5	100	0
STL-064	6.4	3.2	0.6	100	0
STL-095	9.5	4.8	0.6	100	F
STL-127	12.7	6.4	0.6	50	F
STL-190	19.0	9.5	0.8	30	F
STL-254	25.4	12.7	0.9	30	F
STL-318	31.8	15.9	1.0	30	F
STL-381	38.1	19.0	1.0	30	F
STL-508	50.8	25.4	1.1	30	F

# STHF

## ShrinkTech Thin wall halogen-free tubing

This tube responds to the highest environmental requests, made with specially designed halogen-free polyolefin. It produces neither toxic smoke nor harmful substances, ideal for underground applications where zero halogen cables & accessories are in demand.



- Halogen-free
- Low shrink temperature
- Flexible
- UL224, 125°C, VW-1
- Environmental friendly, free from toxic heavy metal compounds

- **Material:**  
modified polyolefin
- **Colour:**  
black
- **Packaging:**  
spools



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STHF-012	1.2	0.6	0.20	200	O
STHF-016	1.6	0.8	0.20	200	O
STHF-024	2.4	1.2	0.25	200	O
STHF-032	3.2	1.6	0.25	200	O
STHF-048	4.8	2.4	0.25	100	O
STHF-064	6.4	3.2	0.28	100	O
STHF-095	9.5	4.8	0.28	100	F
STHF-127	12.7	6.4	0.28	50	F
STHF-190	19.0	9.5	0.35	30	F
STHF-254	25.4	12.7	0.40	30	F
STHF-318	31.8	15.9	0.90	30	F
STHF-381	38.1	19.0	1.00	30	F
STHF-508	50.8	25.4	1.10	30	F

# STU

## ShrinkTech Ultra thin wall tubing

Insulating, identifying cables without changing the wire's diameter. The low shrink temperature recovery reduces installation time and eliminates heat damage on the application.



- **Material:**  
modified polyolefin
- **Colour:**  
black
- **Packaging:**  
spools

- Ultra thin wall
- Low shrink temperature
- Flexible
- UL 224, 125°C, VW-1
- Flame retardant
- Environmental friendly, free from toxic heavy metal compounds



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STU-012	1.2	0.6	0.20	200	O
STU-016	1.6	0.8	0.20	200	O
STU-024	2.4	1.2	0.25	200	O
STU-032	3.2	1.6	0.25	200	O
STU-048	4.8	2.4	0.25	100	O
STU-064	6.4	3.2	0.28	100	O
STU-095	9.5	4.8	0.28	100	F
STU-127	12.7	6.4	0.28	50	F
STU-190	19.0	9.5	0.35	30	F
STU-254	25.4	12.7	0.40	30	F

# ST150

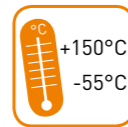
ShrinkTech 150°C

It reliably protects wires, solder joints terminals, connections from most industrial fluid solvents and fluid chemicals. Can be used for jacketing and bundling of wires where abrasion resistance and flexibility are required.



- Environmental friendly, free from toxic heavy metal compounds
- UL 224, 125°C, VW-1,
- Extremely resistant to mechanical and chemical damage
- Semi-rigid
- Flame retardant
- MIL-I-23053 Military spec.

- **Material:** Kynar modified polyvinyl fluoroid
- **Colour:** black, transparent
- **Packaging:** spool



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST150-012	1.2	0.6	0.25	200	O
ST150-016	1.6	0.8	0.25	200	O
ST150-024	2.4	1.2	0.27	200	O
ST150-032	3.2	1.6	0.27	200	O
ST150-048	4.8	2.4	0.27	100	O
ST150-064	6.4	3.2	0.33	100	O
ST150-095	9.5	4.8	0.33	50	F
ST150-127	12.7	6.4	0.33	50	F
ST150-190	19.0	9.5	0.43	30	F
ST150-254	25.4	12.7	0.48	30	F
ST150-318	31.8	15.9	0.48	30	F

# ST175

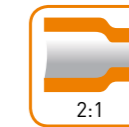
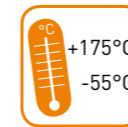
ShrinkTech 175°C

High performance PVDF tubing. Excellent to insulate from high temperatures. It reliably protects wires, solder joints, terminals, connections and components from most industrial fuels, solvents and chemicals. Recommended for electronics and automotive industry.



- **Material:** Kynar modified polyvinyl fluoroid
- **Colour:** black, transparent
- **Packaging:** spool

- Environmental friendly, free from toxic heavy metal compounds
- Flame retardant
- Very flexible
- UL 224, 125 °C, VW-1
- MIL-I-23053 Military spec.
- Extremely thin walled



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST175-012	1.2	0.6	0.25	200	O
ST175-016	1.6	0.8	0.25	200	O
ST175-024	2.4	1.2	0.27	200	O
ST175-032	3.2	1.6	0.27	200	O
ST175-048	4.8	2.4	0.27	100	O
ST175-064	6.4	3.2	0.33	100	O
ST175-095	9.5	4.8	0.33	50	F
ST175-127	12.7	6.4	0.33	50	F
ST175-190	19.0	9.5	0.43	30	F
ST175-254	25.4	12.7	0.48	30	F
ST175-318	31.8	15.9	0.48	30	F

# ST200

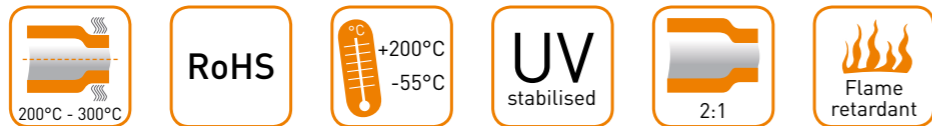
ShrinkTech 200°C

Very high performance elastomeric tubing (Viton). Suitable for applications requiring high resistance to corrosive fluids, fuels, lubricants, acids and solvents at elevated temperature (up to 200 °C). Frequently used in harsh environments such as defence, aerospace or marine.



- MIL-I-23053 Military spec.
- UL 224, 125°C, VW-1,
- Very flexible
- Flame retardant
- Environmental friendly, free from toxic heavy metal compounds

- **Material:**  
Viton fluoroelastomer
- **Colour:**  
black
- **Packaging:**  
spool



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST200-032	3.2	1.6	0.76	61.0	O
ST200-048	4.8	2.4	0.90	61.0	O
ST200-064	6.4	3.2	0.90	30.5	O
ST200-095	9.5	4.8	0.90	30.5	F
ST200-127	12.7	6.4	1.10	30.5	F
ST200-190	19.0	9.5	1.30	15.0	F
ST200-254	25.4	12.7	1.65	1.22	F
ST200-381	38.1	19.0	1.90	1.22	F
ST200-508	50.8	25.4	2.80	1.22	F

# STDR

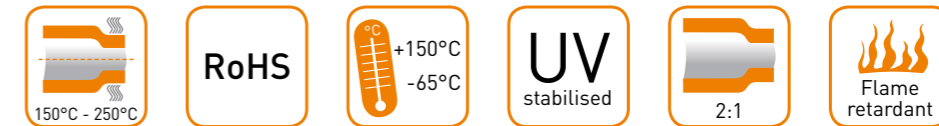
ShrinkTech Diesel resistant tubing

Very flexible elastomer tube which preserves its quality in extreme weather conditions. Highly resistant to corrosive materials, fuels, hydraulic oil and diesel oil. Recommended for automotive, defence, aerospace and high tech industries.



- **Material:**  
Modified fluoroelastomer
- **Colour:**  
Black
- **Packaging:**  
Spool

- Extremely resistant to mechanical and chemical damage
- Diesel resistant
- Wery flexible
- Flame retardan
- Environmental friendly, free from toxic heavy metal compounds
- MIL-I-23053



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STDR-032	3.2	1.6	0.76	50	O
STDR-048	4.8	2.4	0.85	50	O
STDR-064	6.4	3.2	0.90	50	O
STDR-095	9.5	4.8	1.03	50	O
STDR-127	12.7	6.4	1.23	30	O
STDR-190	19.0	9.5	1.43	30	F
STDR-254	25.4	12.7	1.80	30	F
STDR-318	31.8	15.9	2.40	15	F

## STCA

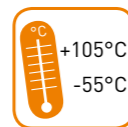
ShrinkTech Heat shrink tube with high shine

Thin wall shiny heat shrink tube which is perfect for insulating and fixing components. Recommended for automotive and telecom industry. Extra shiny surface.



- Environmental friendly, free from toxic heavy metal compounds
- Age resistant
- Extremely shiny surface
- Resistant to fluids and oil
- Flame retardant

- **Material:**  
Modified polyolefine
- **Colour:**  
Shiny black
- **Packaging:**  
Spool or cutted pieces available on request
- Other sizes are available



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
STCA-024	2.40	1.20	0.30	200	0
STCA-032	3.20	1.60	0.30	200	0
STCA-048	4.80	2.40	0.35	100	0
STCA-064	6.40	3.20	0.35	100	0
STCA-095	9.50	4.80	0.35	100	0
STCA-127	12.7	6.40	0.45	50	0
STCA-191	19.1	9.50	0.50	50	0

## STM STMA

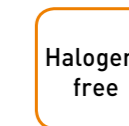
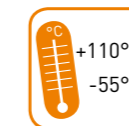
ShrinkTech Medium wall without adhesive, with adhesive



Perfect for numerous low voltage electrical and mechanical applications, where lighter weight and greater flexibility are important.

Recommended for applications where mechanical protection, waterproofing and sealing of connectors components within the tubing are essential.

- **Material:**  
modified polyolefin
- **Colour:**  
black
- **Packaging:**  
per meter
- Halogen-free
- Waterproof
- Extremely resistant to mechanical damage
- Flexible
- Environmental friendly



Article No.		Internal diameter (mm)		Wall thickness fully recovered (mm)	Length (mm)
Without adhesive	With adhesive	Min.as supplied	Max. fully recovered		
STM-009	STMA-009	9.0	3.0	1.7	1000
STM-012	STMA-012	12.0	4.0	2.2	1000
STM-016	STMA-016	16.0	5.0	2.5	1000
STM-022	STMA-022	22.0	6.0	2.3	1000
STM-033	STMA-033	33.0	8.0	2.3	1000
STM-040	STMA-040	40.0	12.0	2.7	1000
STM-055	STMA-055	55.0	16.0	2.8	1000
STM-065	STMA-065	65.0	19.0	3.0	1000
STM-074	STMA-075	75.0	22.0	3.0	1000
STM-085	STMA-085	85.0	25.0	3.0	1000
STM-095	STMA-095	95.0	25.0	3.0	1000
STM-115	STMA-115	115.0	34.0	3.0	1000
STM-140	STMA-140	140.0	42.0	3.0	1000
STM-160	STMA-160	160.0	50.0	3.0	1000
STM-175	STMA-175	175.0	55.0	3.5	1000
STM-200	STMA-200	200.0	65.0	3.5	1000

# STH STHA

ShrinkTech Heavy wall tubing with or without internal adhesive

Designed for applications to seal and protect electrical and communication connections. Provides excellent mechanical protection to cable joints and terminations, flexible gas pipes, etc.



- Halogen-free
- Waterproof
- Extremely resistant to mechanical damage
- Environmental friendly, free from toxic heavy metal compounds

- **Material:** modified polyolefin
- **Colour:** black
- **Packaging:** per meter



Article No.		Internal diameter (mm)		Wall thickness fully recovered (mm)	Length (mm)
Without adhesive	With adhesive	Min.as supplied	Max. fully recovered		
STH-009	STHA-009	9.0	3.0	1.8	1000
STH-013	STHA-013	13.0	4.0	2.4	1000
STH-022	STHA-022	22.0	6.0	2.7	1000
STH-033	STHA-033	33.0	8.0	3.2	1000
STH-040	STHA-040	40.0	12.0	4.1	1000
STH-045	STHA-045	45.0	13.0	4.1	1000
STH-055	STHA-055	55.0	16.0	4.1	1000
STH-065	STHA-065	65.0	19.0	4.3	1000
STH-075	STHA-075	75.0	22.0	4.3	1000
STH-085	STHA-085	85.0	25.0	4.3	1000
STH-095	STHA-095	95.0	29.0	4.3	1000
STH-115	STHA-115	115.0	34.0	4.3	1000
STH-130	STHA-130	130.0	36.0	4.3	1000
STH-160	STHA-160	160.0	55.0	4.3	1000
STH-175	STHA-175	175.0	55.0	4.3	1000

# STEC

ShrinkTech End Cap

Recommended for use both in open air and on underground power distribution cables with PVC, lead or XLPE sheets. Definitive recovery with the layer of spiral coated hot melt adhesive. Protects power cables up to 1 kV and telecommunication cables. Resistant to oxydation, ozone, UV radiation.



- **Material:** modified polyolefin + internal adhesive
- **Colour:** black
- **Packaging:** per unit

- With valve or without valve
- Waterproof
- Environmental friendly, free from toxic and heavy metal compounds
- UV stabilised

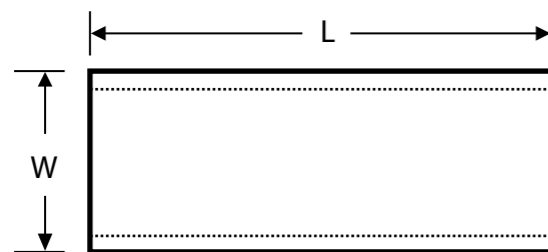


Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Length (m)	Cable diameter (mm)
	Min.as supplied	Max. fully recovered			
STEC-012	12	4.0	2.0	40	4-10
STEC-014	14	4.5	2.0	45	5-12
STEC-020	20	6.0	2.3	55	6-16
STEC-025	25	8.0	2.3	83	10-20
STEC-035	35	16.0	3.0	83	17-30
STEC-040	40	16.0	3.0	83	18-32
STEC-055	55	26.0	3.3	103	28-48
STEC-075	75	36.0	3.5	120	45-65
STEC-100	100	50.0	4.0	140	55-90
STEC-120	120	60.0	4.0	150	65-110
STEC-145	145	60.0	4.0	150	70-130
STEC-160	160	82.0	4.0	150	90-150
STEC-200	200	90.0	4.2	160	100-180

## ShrinkTech Heat Shrinkable Wraparound Sleeves with hot melt adhesive

This heat shrinkable flexible tape is a spirally hand wrapped, radiation cross-linked anticorrosion tape, used at the pipe bends where other semi-rigid or rigid tapes are not usable. The installation is carried out directly on the cleaned and prepared pipe surface without any primer. During installation STWRAP should be used around with a 50% overlapping. The backing layer is heated and shrinks well around the pipe, while the sealing adhesive melts and forced into all surface irregularities forming a thorough coating and a complete bond with the substrate. As it's easy to apply at any size at any length.

- Waterproof
- Extremely resistant to mechanical damage
- Flexible
- Environmental friendly
- **Material:** modified polyolefin with hot melt adhesive
- **Colour:** black
- **Packaging:** spool



L length  
W width

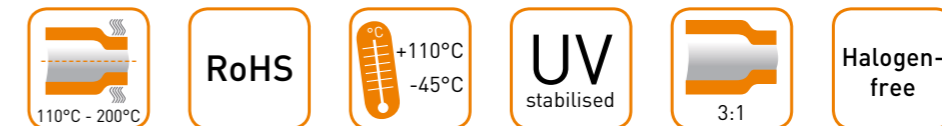
Article No.	Widths W (mm) Min. as supplied	Wall thickness fully recovered (mm) ± 20%	Length L (m)
STW-050	50.0	0.8 + 0.7	15 or 30
STW-075	75.0	0.8 + 0.7	15 or 30
STW-100	100.0	0.8 + 0.7	15 or 30

## ShrinkTech High Voltage Insulating Tubes

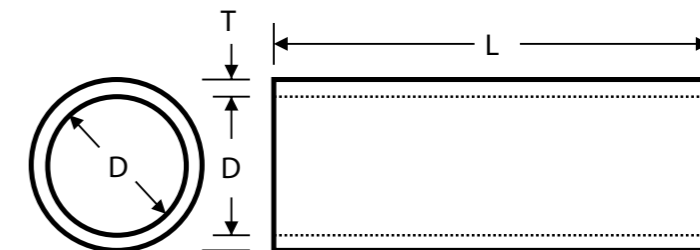


Heat Shrinkable Insulating Tubes are used to build up insulation over the connector area in High voltage Plastic and Paper insulates cable straight through joints rated up to 36kV. The insulating tubes are made from thermally stabilised cross linked high resistance polymeric material.

- **Material:** modified polyolefin
- **Colour:** red
- **Packaging:** spool
- High voltage resistance
- Extremely resistant to mechanical damage
- Flexible
- Environmental friendly



All dimension are in mm  
Drawing depicts typical dimensions  
E as supplied  
S after free recovery  
D internal diameter  
L Length as per requirement



Article No.	Internal diameter D v(mm)		Wall thickness fully recovered (mm) ± 20%	Length L (m)
	Min.as supplied E	Max. fully recovered S		
STB-020	20.0	7.0	2.5	50
STB-030	30.0	8.0	3.0	50
STB-040	40.0	12.0	3.5	30
STB-055	55.0	18.0	3.5	30
STB-065	65.0	21.0	4.0	30
STB-080	80.0	26.0	4.0	15
STB-110	110.0	37.0	4.5	15
STB-150	150.0	50.0	4.5	10
STB-180	180.0	65.0	4.5	10



## Label and heat shrink tube printer

**A4+M** The Centre-Aligned.

No adjustment of the print head for different widths of material.

Printing on very narrow or very thick continuous materials.

### 1. Big graphic display

White backlight guarantees optimal legibility.

### 2. Ribbon retainer

Easy and centred insertion of the ribbon with the threepart tightening axles. Due to the imprinted spacer positioning of the ribbon is facilitated.

### 3. Easy adjustment

The print head is pressed down with two sliding toggles. One is mounted to the left label margin, the other one is pushed to the right label margin.

### 4. Material guide

Precise printing due to the material guide located directly behind the print roller. The width is adjusted with a spindle.

### 5. Peripheral connection

Add-on modules like cutter, external rewinder, present sensor, peel-off adapter and applicators can be easily connected via USB peripheral interface. All peripheral devices are put onto the printer with two gudgeons and fixed with a bolt.



The gap height at the material sensor for flat tubes and synthetic tapes is up to 4 mm.

The print speed for difficult printable materials is reduced to 30-125 mm/sec.

### 6. Solid, buckling resistant metal chassis

It is made of dye-cast aluminium. All devices are assembled to it.

### 7. Roll holder

Applicable for core diameters as of 38 mm. (we include adapters for core diameters from 76 mm for a better winding of the labels). The spring mounted margin stop ensures constant tension while feeding and therefore a highly precise imprint.

### 8. Only one tool for all maintenance tasks

The Allen key is located ready to hand directly at the printer while feeding and therefore a highly precise imprint.

### 9. Integration into SAP R/3

In collaboration with SAP cab developed the so-called "Replace method" in order to control the cab printers with SAPScript from SAP/R3.

As Silver Level-partner in SAP's Printer Vendor Program cab has access to the SAP development area for optimal printer support in an SAP environment.

### 10. Stand-alone operation

The layout of the labels is created either with the label software or direct programming via text editor directly on the PC.

Label formats, fonts and graphic data, serial data and data base contents are saved or imported on the CF memory card or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data of a barcode scanner or a scale can be fed additionally.

# ShrinkTech & cab MARKING SYSTEM

1. Print head		
Print method	Thermal transfer	Direct
Print resolution dpi	300 dpi	600dpi
Print speed up to mm/s	30-125	30-100
Print width mm	105.6	105.6
2. Material		
Labels, continous rolls or fan-folded	paper, cardboard, textile, Synthetics PE, PP, PVC, PA, PI,	
Material thickness mm	0.055-1.2	
Weight g/m	60-250	
Width	Label (mm)	4-106
	carrier material (mm)	25-110
	flat pressed tube up to 0,4 thick	3-110
Height (mm)	5-1000	
Media roll:	Total diameter up to (mm)	210
	Core diameter (mm)	38-100
	Winding direction	outside or inside
Gap height: Material sensor, Cutter up to (mm)	4.5	
3. Ribbon		
Ink	outside or inside	
Roll diameter up to mm	80	
Core diameter mm	25	
Ribbon length variable up to m	500	
Width mm	50-114	
4. Dimensions of the printer		
Height x Depth mm	270 x 446	
Width mm	242	
Weight kg	9	
5. Label sensor		
See-through sensor	or leading edge of the label or punching marks and end of material	
Distance from the center to the left mm	0-53	
6. Electronics		
Processor 32 Bit ColdFire (Mhz)	266	
RAM MB	64	
IFFS Memory MB Flash	8	
Slot for memory CompactFlash-card Type I	yes	
7. Operation panel		
Buttons/LED display	Pause, Feed, Cancel, Menue, Enter, 4 x Cursor	
LCD graphic display	Text 4 lines, ca. 20 digits per line	
Width x Height mm	60 x 40	

8. Interfaces		
Standard	RS232 C 1.200 up to 230.400 Baud/8 Bit, USB 2.0 High Speed Slave for PC-connection, Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	
Option	Centronics bi-directional acc. IEEE 1284, WLAN card 802.11b/g WEP/WPA PSK (TKIP)	
9. Monitoring		
Stop printing if	End of ribbon End of labels Printhead open Direct	
On the display	Data reception	Clock
	WLAN field intensity	Date sheet
	Ethernet state	abc Debug
	Used memory	Input buffer
	Temperature printhead	
	Access to memory card	
Remaining quantity of ribbon		
10. Settings		
digital or analog clock	time	
system settings	date	
print parameters	interfaces	
25 language settings	security	
11. Test routines		
System diagnosis	When switched on with testing of printhead, font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state	
Status reports	Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.	
12. Fonts		
Font type	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese) Optional Thai.	

# ShrinkTech & cab MARKING SYSTEM

Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese
13. Graphics	
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG
14. Codes	
Linear Barcodes	Code 39, Code 93 Interleaved 2/5, Code 39 Teljes ASCII, Ident- and lead, Code 128 A, B, C, EAN 8, 13 JAN 8, 13, EAN/UCC 128, MSI, EAN/UPC Appendix 2, Plessey, EAN/UPC Appendix 5 Postnet, FIM, RSS 14, HIBC, UPC A, E, E0
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix
All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code depending on code type.	
15. Software	
Programming	J-Script direct programming abc-Basic Compiler Database Connector
System diagnosis/ Administration	printer monitoring Network Manager
Operating systems	2000, XP32/64 bit, 2003 32/64 bit, Vista 32/64 bit OS X printer driver from version 10.3 Suse 9.0, CUPS based
16. Operation data	
Power supply	100 - 240V ~ 50/60 Hz, PFC
Power consumption	Max. 300 W
Temperature	10 - 35°C
Humidity	30 - 85% not condensing
Approvals	CE, FCC A, CD, CCC, UL

## Perforation cutter and cutter PCU4

Perforation cutter and cutter  
The perforation cutter also permits the perforation of the material in order to separate it manually.

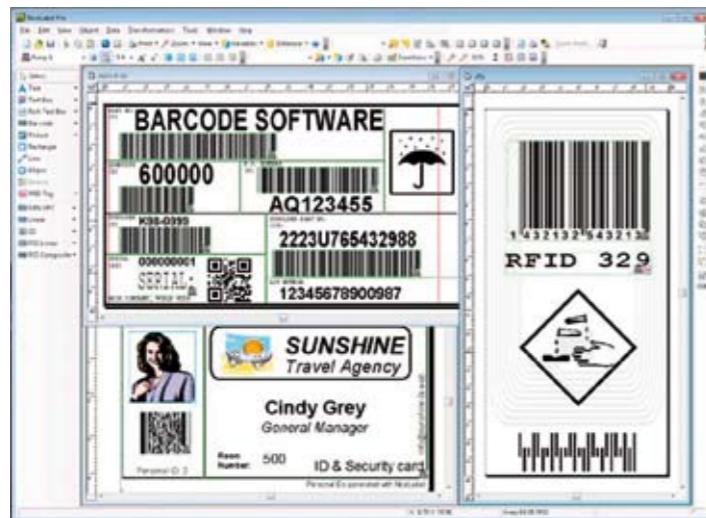
1. Cutting and performing	
Cuts/min.	120
Cutting Perforating	150
Stop print job if	Final position not reached
2. Material	
Weight	60-300 g/m2
Material hickness	0.05-1.2 mm
Width up to	110 mm
Cutting length	< 5 mm
Gap height up to	4.5 mm
3. Perforating	
Web width	0.5 mm
Web distances	2.5/10 mm



# STP-Softver

Nice Label labeling software

NiceLabel Pro is an advanced label designer for professional bar code and RFID labeling. A wide range of options makes NiceLabel Pro a perfect and easy-to-use, wizard-driven tool for any labeling requirement, including RFID, compliance labeling and more.



NiceLabel Pro includes support for all industry standard bar codes (including 2-D) and RFID Class 1 and Gen 2 support.

Many times companies must comply with particular customer or industry (chemical, automotive, retail, etc.) compliance requests. NiceLabel Pro includes many industry standard label templates that makes label design and printing fast and easy.

A user-friendly database connection wizard and database manager provides for fast and easy database connection and printing operations. A fully exposed .NET/ActiveX programmer's interface enables programmers to integrate NiceLabel Pro into other Windows applications. Over 25 international languages supported in additional full Unicode data import and design compliance.

Nice Label product	Label design	Label printing	Integration and connectivity	System management
Express	■ ■	■ ■	■ ■	N/A
Pro	■ ■ ■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Suite	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■	■ ■ ■

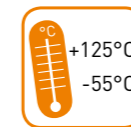
# STP-S

ShrinkTech standard printable heat shrink tube



Very flexible elastomer tube which preserves its quality in extreme weather conditions. Highly resistant to corrosive materials, fuels, hydraulic oil and diesel oil. Recommended for automotive, defence, aerospace and high tech industries.

- **Material**  
Modified polyolefin
- **Colours**  
Yellow, white
- **Packaging**  
100m spool
- **Flexibility**  
UL224, 125°C, VW-1
- **Environmental friendly**, free from toxic heavy metal compounds
- **Extremely flat**



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)
	Min.as supplied	Max. fully recovered		
STP-032-S	3.2	1.6	0.3	100
STP-048-S	4.8	2.4	0.3	100
STP-064-S	6.4	3.2	0.4	100
STP-095-S	9.5	4.8	0.5	100
STP-127-S	12.7	6.5	0.5	100
STP-191-S	19.1	9.5	0.6	100
STP-254-S	25.4	12.7	0.6	100
STP-381-S	38.1	19.1	0.6	100

## STP-D

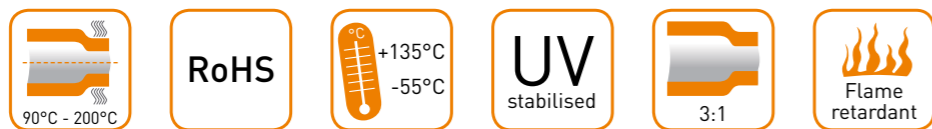
ShrinkTech diesel resistant printable heat shrink tube

Extra thin, flatten, printable heat shrink tube for universal use. Recommended for electronics and automotive industries for the purpose of identifying and labelling cables. The infinite form allows to apply in any size, so reducing the costs. The oil-resistant heat shrink tube and label is permanent solution in any circumstances.



- Flexible
- UL224, 125°C, VW-1
- Environmental friendly, free from toxic heavy metal compounds
- MIL-I-23053

- **Material**  
Modified polyolefin
- **Colours**  
Yellow, white
- **Packaging**  
100m spool



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)
	Min.as supplied	Max. fully recovered		
STP-030-D	3.0	1.0	0.3	100
STP-045-D	4.5	1.5	0.3	100
STP-060-D	6.0	2.0	0.4	100
STP-090-D	9.0	3.0	0.5	100
STP-120-D	12.0	4.0	0.5	100
STP-180-D	18.0	6.0	0.6	100
STP-240-D	24.0	8.0	0.6	100

## STP-M

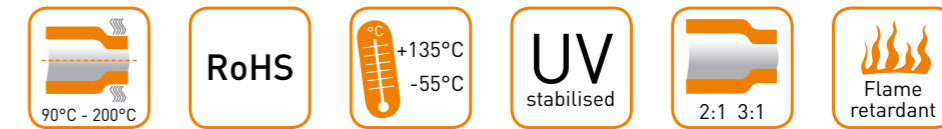
ShrinkTech printable tube with military standard

Extra thin, flatten, printable heat shrink tube for universal use. Recommended for automotive, high-tech, aerospace and defence industries for the purpose of labelling cables. The infinite form allows to apply in any size, so reducing the costs.



- **Material**  
Modified polyolefin
- **Colours**  
Yellow, white
- **Packaging**  
100m spool

- Flexible
- UL224, 125°C, VW-1
- Environmental friendly, free from toxic heavy metal compounds
- Military standard MIL-I-23053
- Extremely flat



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)
	Min.as supplied	Max. fully recovered		
STP-030-M	3.0	1.0	0.3	100
STP-045-M	4.5	1.5	0.3	100
STP-060-M	6.0	2.0	0.4	100
STP-090-M	9.0	3.0	0.5	100
STP-120-M	12.0	4.0	0.5	100
STP-180-M	18.0	6.0	0.6	100
STP-240-M	24.0	8.0	0.6	100
STP-032-M	3.2	1.6	0.3	100
STP-048-M	4.8	2.4	0.3	100
STP-064-M	6.4	3.2	0.4	100
STP-095-M	9.5	4.8	0.5	100
STP-127-M	12.7	6.5	0.5	100
STP-191-M	19.1	9.5	0.6	100
STP-254-M	25.4	12.7	0.6	100

## STP-HF

ShrinkTech halogen free printable heat shrink tube

Extra thin, flatten, printable heat shrink tube for universal use. Recommended for electronics and automotive industries for the purpose of identifying and labelling cables. The infinite form allows to apply in any size, so reducing the costs. The oil-resistant heat shrink tube and label is permanent solution in any circumstances.



- Flexible
- UL224, 125°C, VW-1
- Environmental friendly, free from toxic heavy metal compounds
- Shrink tube and label resistant to diesel oil
- Halogen free

- **Material**  
Modified polyolefin
- **Colours**  
Yellow, white
- **Packaging**  
100m spool



Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)
	Min.as supplied	Max. fully recovered		
STP-032-HF	3.2	1.6	0.3	100
STP-048-HF	4.8	2.4	0.3	100
STP-064-HF	6.4	3.2	0.4	100
STP-095-HF	9.5	4.8	0.5	100
STP-127-HF	12.7	6.5	0.5	100
STP-191-HF	19.1	9.5	0.6	100
STP-254-HF	25.4	12.7	0.6	100

## STSIL

ShrinkTech Silicon tube



The silicone tube can be used in wide range of temperature. It preserves its flexibility at extremely low and high temperature as well. Ideal for application where the temperature is continuously high during operation. Recommended for electronics industries. It is available with or without talcum. Weather-proof even above 200 °C

- Very flexible
- Extremely temperature resistant
- 60 Shore A

- **Colour:**  
Transparent  
Other colour are available
- **Packaging:**  
spool  
Other diameters are available

Article No.	Internal diameter (mm)	Outer diameter Wall thickness 0,5 (mm)	Outer diameter Wall thickness 1,0 (mm)	Spools (m)
STSIL-005-	0.5	1.5	2.5	100
STSIL-010-	1.0	2.0	3.0	100
STSIL-015-	1.5	2.5	3.5	100
STSIL-020-	2.0	3.0	4.0	100
STSIL-025-	2.5	3.5	4.5	100
STSIL-030-	3.0	4.0	5.0	100
STSIL-035-	3.5	4.5	5.5	100
STSIL-040-	4.0	5.0	6.0	100
STSIL-050-	5.0	6.0	7.0	100
STSIL-060-	6.0	7.0	8.0	100
STSIL-070-	7.0	8.0	9.0	100
STSIL-080-	8.0	9.0	10.0	100
STSIL-090-	9.0	10.0	11.0	100

The fiberglass tube can be used in wide range of temperature. It preserves its flexibility at extremely low and high temperature as well. Very good electrical insulator, available with 1,5kV up to 15kV resistance. Recommended for electronics industries.



- Flexible
- High temperature
- 155 °C up to 255 °C
- Excellent resistance to ageing.
- They accept projections of hydrocarbons and mineral oils.

- **Material:**  
Silicon fiberglass and Acril fiberglass
- **Colours:**  
Brown and white  
Other colours are available
- **Packaging:**  
spool  
Wall thickness 0.35 - 1.25 mm

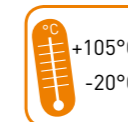
Article No.	Internal diameter (mm)	Operating temperature °C	Spools (m)	
STFAcr-010	1.0	+155	200	3kV
STFAcr-015	1.5	+155	200	3kV
STFAcr-020	2.0	+155	200	3kV
STFAcr-025	2.5	+155	200	3kV
STFAcr-030	3.0	+155	200	3kV
STFAcr-040	4.0	+155	200	3kV
STFAcr-050	5.0	+155	200	3kV
STFAcr-060	6.0	+155	150	3kV
STFAcr-070	7.0	+155	150	3kV
STFAcr-080	8.0	+155	150	3kV
STFAcr-100	10.0	+155	100	3kV
STFAcr-120	12.0	+155	100	3kV



PVC tubing is a flexible flame-retardant not heat shrinkable tubing which has excellent electrical and physical performances, and outstanding acid fastness and corrosion resistivity. This tubing is suitable for insulation purpose of electronics, automotive, lead wires of motors and transformers.

- **Material:**  
PVC
- **Colour:**  
black,  
Other colours are available  
Other diameters are available
- **Packaging:**  
spool

- Flexible
- UL95, 105°C, Black
- Environmental friendly, free from toxic heavy metal compounds



Article No.	Internal diameter (mm)	Wall thickness (mm)	Spools (m)	Shape
STI-020	2.0	0.4	200	O
STI-030	3.0	0.5	200	O
STI-040	4.0	0.5	200	O
STI-050	5.0	0.6	200	O
STI-060	6.0	0.6	100	O
STI-070	7.0	0.6	100	O
STI-080	8.0	0.8	100	F
STI-090	9.0	0.9	50	F
STI-010	10.0	0.9	30	F
STI-012	12.0	1.0	30	F
STI-014	14.0	1.0	30	F
STI-016	16.0	1.0	30	F
STI-018	18.0	1.2	30	F

# HAND WELDING DEVICES

Handheld devices to weld thermoplastic synthetic materials

**Ideal for:**

- Shrinking ■ Drying
- Soldering ■ Heating
- Activating ■ Bending

Continuous temperature setting to 650°C.  
High-performance with ergonomic grip, for differing applications and extensive accessories like nozzles, reflectors etc.



- digital indication of nominal and actual values (STRion Digital only)
- ideal price-performance ratio
- stepless adjustable temperature
- fatigue-proof welding due to ergonomic form of the handle
- service-friendly
- highest quality

Technical data		ST-Rion	ST-Rion Digital	ST-Eron
Voltage	V	230	230	230
Frequency	Hz	50/60	50/60	50/60
Power	W	1600	1600	3400 / 2700
Temperature	°c	20 - 650	20 - 650	20 - 650
Air amount	l/min.	250	250	ca. 500
Static pressure	Pa	ca. 3000	ca. 3000	ca. 3000
Emission	dB	64	64	64
Measurements	mm	d. 100x340, handle 60	d. 100x340, handle 60	d. 94x320, handle 64
Weight	kg	1.3 with cable	1.3 with cable	1.5 with cable

# HAND WELDING DEVICES

Nozzles for hand welding devices

<p>Tube nozzle, diameter 5 mm, push-on type for ST-Rion</p>  <p>Article No. <b>ST-5100303</b></p>	<p>Wide slot nozzle 20 mm slide on foot at an angle</p>  <p>Article No. <b>ST-5105487</b></p>	<p>Wide slot nozzle 30 x 2 mm 15° slide on</p>  <p>Article No. <b>ST-5105494</b></p>
<p>Wide slot nozzle 20 mm slide on</p>  <p>Article No. <b>ST-5107123</b></p>	<p>Angle nozzle 20 mm 90° slide on</p>  <p>Article No. <b>ST-5107124</b></p>	<p>Angle nozzle 20 mm 60° slide on</p>  <p>Article No. <b>ST-5107125</b></p>
<p>Wide slot nozzle 60 mm</p>  <p>Article No. <b>ST-5107129</b></p>	<p>Wide slot nozzle 40mm 60° angled</p>  <p>Article No. <b>ST-5107130</b></p>	<p>Wide slot nozzle 40 mm slide on</p>  <p>Article No. <b>ST-5107132</b></p>
<p>ST-Eron Wide slot nozzle 70 x 10 mm</p>  <p>Article No. <b>ST-5107258</b></p>	<p>ST-Eron Wide slot nozzle 75 x 2 mm</p>  <p>Article No. <b>ST-5107266</b></p>	<p>ST-Eron Wide slot nozzle 150 x 12 mm</p>  <p>Article No. <b>ST-5107270</b></p>





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