

Conversion from imperial to metrics									
Zoll	1/32"	3/64"	1/16"	5/64"	3/32"	1/8"	3/16"	1/4"	3/8"
mm	0.8	1.2	1.6	2.0	2.4	3.2	4.8	6.4	9.5
Zoll	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
mm	12.7	15.9	19.1	25.4	31.8	38.1	50.8	76.2	101.6

## The right heat shrink tube

The 80:20 rule means that a heat shrink tube should shrink by a maximum of 80% and a minimum of 20%. For example: A cable with a diameter of 5 mm is to be wrapped in heat shrinkable tubing. In theory both sizes 6/2 and 12/4 would be suitable since the required diameter of 5 mm lies within the shrink range of both tube sizes.

Maximum shrink (100%)



Maximum shrinkage = 4 mm

Optimum shrink max. ( 80%)



Shrinkage of 3.2 mm

Optimum shrink min. ( 20%)



Shrinkage of 0.8 mm

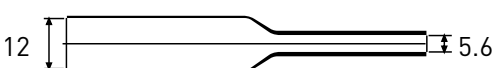
Size 6/2 has a range of application of between 2.8 mm and 5.2 mm and is therefore suitable for the cable diameter of 5 mm.

Maximum shrink (100%)



Maximum shrinkage = 8 mm

Optimum shrink max. ( 80%)



Shrinkage of 6.4 mm

Optimum shrink min. ( 20%)



Shrinkage of 1.6 mm

The smallest application diameter of size 12/4 is 5.6 mm. This size is therefore unsuitable for a cable diameter of 5 mm.

## 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, other colors available on request
- **Packaging:**  
spool
- Without adhesive
- UL 224, 125 °C, VW-1
- Flexible
- Flame retardant
- Environmental friendly, free from toxic heavy metal compounds



Property	Method of test	Value
Tensile strength	ASTM D 2671	14 MPa
Elongation at break	ASTM D 2671	800%
Elongation at break after ageing	ASTM D 2671 (175°C / 168 hrs)	350 %
Flammability	UL 224 VW-1	Flammable
Heat shock (250°C / 4 hrs)	ASTM D 2671	No cracking or dropping
Cold bendt (-55°C / 4 hrs)	ASTM D 2671	No cracking
Dielectric strength	ASTM D 150	22kV/mm
Volume resistance	ASTM D 876	>10 <sup>14</sup> Ω.cm
Copper stability	UL 224	Pass
Water absorption	ASTM D 570	0.15%

Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST4X-040	4.0	1.0	0.5	200	O
ST4X-060	6.0	1.5	0.5	100	O
ST4X-080	8.0	2.0	0.5	100	O
ST4X-120	12.0	3.0	0.6	100	F
ST4X-160	16.0	4.0	0.6	100	F
ST4X-240	24.0	6.0	0.6	100	F
ST4X-320	32.0	8.0	0.8	50	F