

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

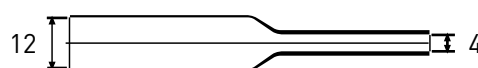
Optimum shrink min. (20%)



Shrinkage of 0.8 mm

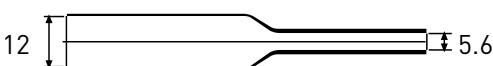
Size 6/2 has a range of application of between 2.8 mm and 5.2 mm and is therefore suitable for the cable diameter of 5 mm.

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.

ST3XF

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.



- SAE-AMS-DTL-23053/5
- UL 224, 125 °C, VW-1
- Very Flexible
- Flame retardant

- **Material:**
modified polyolefin ST135
- **Colour:**
black other colour are available
- **Packaging:**
spool



Property	Method of test	Value
Tensile strength	ASTM D 2671	14 MPa
Elongation at break	ASTM D 2671	500 %
Elongation at break after ageing	ASTM D 2671 (175°C / 168 hrs)	350 %
Tensile strength after ageing	ASTM D 2671	12 MPa
Flammability	UL 22 4 V W-1	Pass
Voltage withstand	ASTM D 2671 2500V 1min	No breakdown
Dielectric strength	ASTM D 2671	20kV/mm
Volume resistance	ASTM D 2671	10 ¹⁴ Ω.cm
Copper stability	UL 224	Pass
Copper corrosion	UL 224	No corrosion
Fluid resistance	SAE-AMS-DTL-23053/5	Pass
Longitudinal shrinkage	UL 224	0±5%
Eccentricity	ASTM D 2671	35%

Article No.	Internal diameter (mm)		Wall thickness fully recovered (mm)	Spools (m)	Shape
	Min.as supplied	Max. fully recovered			
ST3XF-015	1.5	0.5	0.4	200	O
ST3XF-024	2.4	0.8	0.5	150	O
ST3XF-030	3.0	1.0	0.5	150	O
ST3XF-048	4.8	1.6	0.5	75	O
ST3XF-060	6.0	2.0	0.5	75	O
ST3XF-090	9.0	3.0	0.6	75	O
ST3XF-120	12.0	4.0	0.6	50	F
ST3XF-180	18.0	6.0	0.6	50	F
ST3XF-240	24.0	8.0	0.6	30	F
ST3XF-390	39.0	13.0	0.8	30	F