

Special Heat Shrink Parts

S18-200 Flexible Chemical Resistant Rubber Heat Shrink Tube

Introduction

A flexible, radiation cross-linked modified rubber elastomeric heat shrink tube, flame retardant, excellent high and low-temperature resistance, excellent resistance to solvents, oils, and chemical corrosion. Excellent abrasion resistance and radiation resistance, material weight 30% lighter than S10 fluoroelastomer tube. Used for various types of wires and cables in military equipment that require resistance to high and low temperatures, chemical solvents, as well as for insulation of wiring, connection protection or covering, encapsulation of electronic components, and protection of lightweight aerospace wire and cable components.

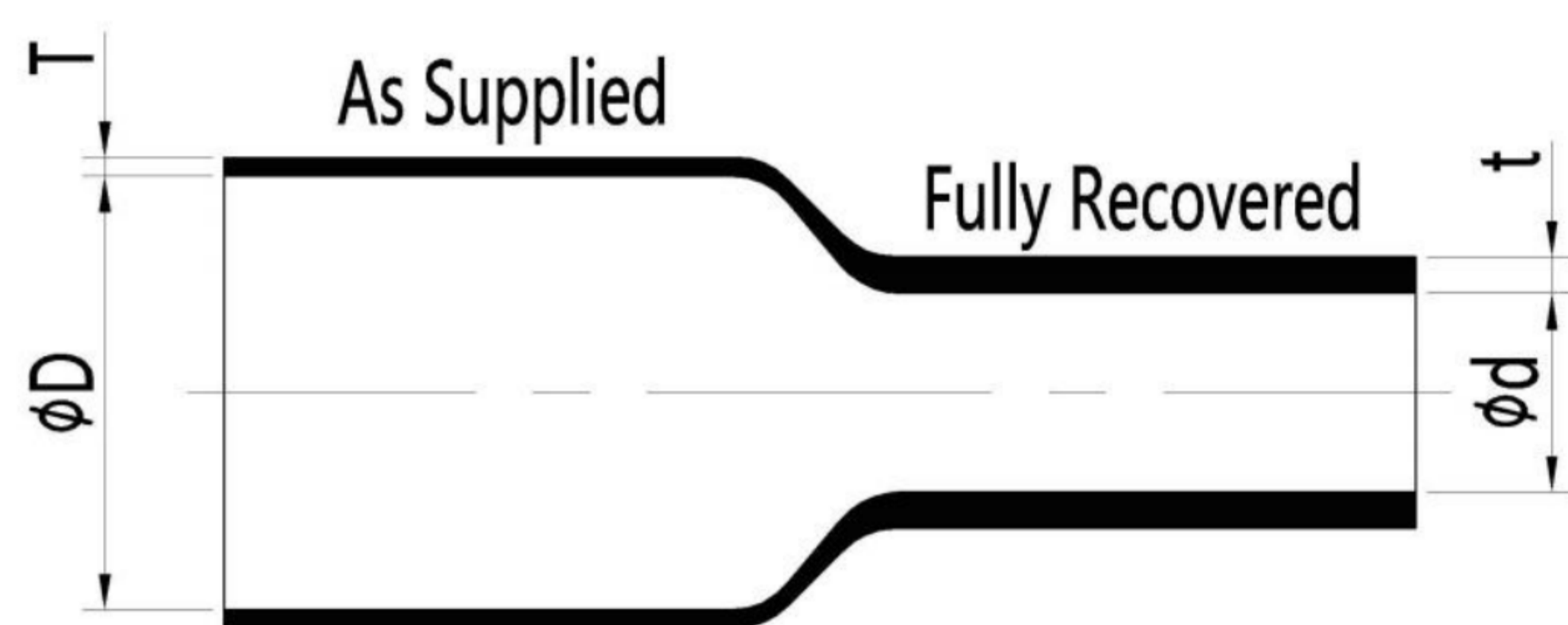
Features

- Operating temperature: -65~200 °C
- Shrink ratio: 2:1
- Minimum full recovery temperature: 220 °C
- Elastomeric rubber, flame retardant

Dimension

Part No. S18-200	As supplied(mm)	After recovered (mm)		Standard Length (m)
	Inner diameter D (min.)	Inner diameter d (max.)	Wall thickness t (nom.)	
3.2/1.6	3.2	1.6	0.30±0.13	100
4.8/2.4	4.8	2.4	0.36±0.13	100
6.4/3.2	6.4	3.2	0.41±0.13	61
9.5/4.8	9.5	4.8	0.48±0.13	61
12.7/6.4	12.7	6.4	0.48±0.13	61
15.9/7.9	15.9	7.9	0.56±0.18	61
19.1/9.5	19.1	9.5	0.69±0.18	61
25.4/12.7	25.4	12.7	0.79±0.18	61
31.8/15.9	31.8	15.9	0.84±0.20	61
38.1/19.1	38.1	19.1	0.94±0.20	30.5
50.8/25.4	50.8	25.4	1.02±0.20	30.5

Ordering Note: Please order according to "model-specification-color", such as S18-200-9.5/4.8-0
Color code: Black (-0)



Technical Data

Property	Test Method	Requirement
Longitudinal change	--	-10%~5%
Restricted Shrinkage	200°C/30min.	No cracking
Water absorption	23°C/24h	≤0.5%
Tensile Strength	500mm/min	≥11.0MPa
Ultimate Elongation	500mm/min	≥250%
Heat shock	300°C/4h	No cracking, dripping or flowing
Heat Aging	250°C/168h	
Tensile Strength		≥11.0MPa
Ultimate Elongation		≥200%
Dielectric strength		≥7.9kV/mm
Dielectric withstand	AC2500V·60S	No breakdown
Volume resistivity	--	≥1.0×10 ⁹ Ω·cm
Fluid resistance	23°C/24h	
Tensile Strength		≥11.0MPa
Dielectric strength		≥200%
Flammability	--	≤60S burning duration
Copper corrosion	175°C/16h	No Corrosion
Low-temperature flexibility	-65°C/4h	No Cracking
Thermal cycling	-65°C/200°C	Tensile Strength≥11.0MPa Ultimate Elongation≥200%
Salt spray test	GJB 150.11	Tensile Strength≥11.0MPa Ultimate Elongation≥200%
Damp-heat test	GJB 150.9	Tensile Strength≥11.0MPa Ultimate Elongation≥200%
Fungus Resistance	GJB 150.10	No worse than rating 1