

FEATURES

- **Very flexible**
- **2:1 shrinkage ratio, shrinks to half its original diameter**
- **Flame retardant**
- **Excellent electrical insulation properties**
- **Resistant to common fluids and solvents**
- **Meets requirements of SAE-AMS-DTL-23053/5 Class 1**

RS PRO Heat Shrink Tubing, Black 9.5mm Sleeve Dia. x 12m Length 2:1 Ratio

RS Stock No.: 666-903



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS Pro a range of high quality, easy to use heat shrink tubing made from flexible, flame retardant Polyolefin. The shrink ratio of this heat shrink tubing is 2:1 which means it shrinks to half of its original diameter. This heat shrinkable tubing meets the requirements of a wide range of high tech and industrial standards including SAE-AMS-DTL-23053/5 class 1

General Specifications

Sleeve Type	Heat Shrink
Colour	Black
Adhesive Lined	No
Shrink Ratio	2:1
Material	Polyolefin
Flame Retardant	Yes
Halogen Free	No
Application	Electrical insulation and protection of resistors and capacitors, Environmental protection against moisture, dust, and chemicals, Mechanical protection to wires and small parts from abrasion, Mechanical strain relief on cable and connector joints to prevent damage caused by flexing or bending, Bundling and organizing harness wires, cable, and tubing, Colour coded identification of cables, wires, and components

Electrical Specifications

Dielectric Strength	19.7KV/mm
Voltage	600V

Mechanical Specifications

Sleeve Diameter	9.5mm
Shrunk Diameter	4.8mm
Sleeve Length	12m
Wall Thickness	0.64mm
Tensile Strength	10.3MPa (min.)
Elongation	200% (min.)
Low Temperature Flexibility	No cracking, during mandrel bend after 4 hours at -55°C
Flexibility	Highly flexible
Heat Shock	No dripping, flowing or cracking after 4 hours at 250°C
Specific Gravity	1.35 (max.)
Longitudinal Change	0±5%

Chemical Properties

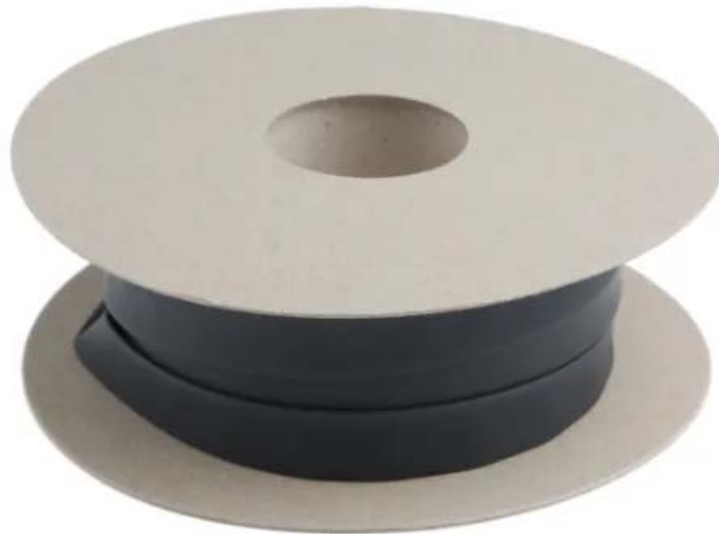
Flammability	Flame Retarded
Tensile Strength	6.9MPa (min.)
Dielectric Strength	15.8KV/mm
Corrosion	Non-corrosive
Water Absorption	0.5% max

Operation Environment Specifications

Operating Temperature	-55°C to 135°C
Shrink Temperature	90°C

Approvals

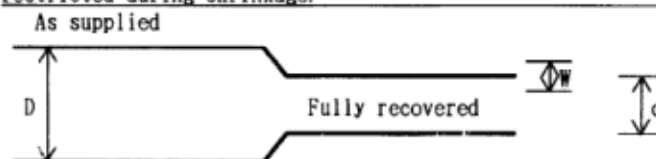
Compliance/Certifications	SAE-AMS-DTL-23053/5 class 1; UL224,VW-1; CSA C22.2 No.198.1
Standards Met	RoHS Compliant, UL



Dimensions

Ordering Information

The largest size which will recover snugly over the component to be covered should be ordered.
 The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.



Ordering size mm	Inside diameter		Wall thickness		
	D(min) Expanded as supplied mm	d(max) Recovered after heating mm	W(nom) Recovered After heating mm		
1.6	1.6	0.8	0.43		RS 666-852
2.4	2.4	1.2	0.51		RS 666-868
3.2	3.2	1.6	0.51		RS 666-874
4.8	4.8	2.4	0.51		RS 666-880
6.4	6.4	3.2	0.64		RS 666-896
9.5	9.5	4.8	0.64		RS 666-903
12.7	12.7	6.4	0.64		RS 666-919
19.0	19.0	9.5	0.76		RS 666-925
25.4	25.4	12.7	0.89		RS 666-931

Part Number	Color	Dimensions		
		As Supplied (mm)	After Recovery (mm)	Wall Thickness Shrunk
		D (I.D.min.)	d (I.D.max.)	w (mm)
700-4453	Clear	3.0	1.0	0.60±0.10
700-4456	Clear	6.0	2.0	0.70±0.10
700-4450	Clear	9.0	3.0	0.80±0.15
700-4469	Clear	12.0	4.0	0.85±0.15
700-4462	Clear	18.0	6.0	1.00±0.15
700-4466	Clear	24.0	8.0	1.20±0.20
700-4475	Yellow	3.0	1.0	0.60±0.10
700-4478	Yellow	6.0	2.0	0.70±0.10
700-4472	Yellow	9.0	3.0	0.80±0.15
700-4481	Yellow	12.0	4.0	0.85±0.15
700-4484	Yellow	18.0	6.0	1.00±0.15
700-4488	Yellow	24.0	8.0	1.20±0.20
700-4497	Blue	3.0	1.0	0.60±0.10
700-4490	Blue	6.0	2.0	0.70±0.10
700-4494	Blue	9.0	3.0	0.80±0.15
700-4504	Blue	12.0	4.0	0.85±0.15
700-4507	Blue	18.0	6.0	1.00±0.15
700-4501	Blue	24.0	8.0	1.20±0.20
700-4510	Red	3.0	1.0	0.60±0.10
700-4513	Red	6.0	2.0	0.70±0.10
700-4517	Red	9.0	3.0	0.80±0.15
700-4526	Red	12.0	4.0	0.85±0.15
700-4529	Red	18.0	6.0	1.00±0.15
700-4523	Red	24.0	8.0	1.20±0.20
700-4532	Black	3.0	1.0	0.60±0.10
700-4535	Black	6.0	2.0	0.70±0.10
700-4539	Black	9.0	3.0	0.80±0.15
700-4548	Black	12.0	4.0	0.85±0.15
700-4541	Black	18.0	6.0	1.00±0.15
700-4545	Black	24.0	8.0	1.20±0.20
700-4554	White	3.0	1.0	0.60±0.10
700-4557	White	6.0	2.0	0.70±0.10
700-4551	White	9.0	3.0	0.80±0.15
700-4560	White	12.0	4.0	0.85±0.15
700-4567	White	18.0	6.0	1.00±0.15
700-4573	White	24.0	8.0	1.20±0.20
700-4582	Green / Yellow	3.0	1.0	0.60±0.10
700-4589	Green / Yellow	6.0	2.0	0.70±0.10
700-4595	Green / Yellow	9.0	3.0	0.80±0.15
700-4608	Green / Yellow	12.0	4.0	0.85±0.15
700-4611	Green / Yellow	18.0	6.0	1.00±0.15
700-4618	Green / Yellow	24.0	8.0	1.20±0.20

CROSS REFERENCE LIST

RS Stock No.	Description
700-4453	Heatshrink tube clear 3/1mm
700-4456	Heatshrink tube clear 6/2mm
700-4450	Heatshrink tube clear 9/3mm
700-4469	Heatshrink tube clear 12/4mm
700-4462	Heatshrink tube clear 18/6mm
700-4466	Heatshrink tube clear 24/8mm
700-4475	Heatshrink tube yellow 3/1mm
700-4478	Heatshrink tube yellow 6/2mm
700-4472	Heatshrink tube yellow 9/3mm
700-4481	Heatshrink tube yellow 12/4mm
700-4484	Heatshrink tube yellow 18/6mm
700-4488	Heatshrink tube yellow 24/8mm
700-4497	Heatshrink tube blue 3/1mm
700-4490	Heatshrink tube blue 6/2mm
700-4494	Heatshrink tube blue 9/3mm
700-4504	Heatshrink tube blue 12/4mm
700-4507	Heatshrink tube blue 18/6mm
700-4501	Heatshrink tube blue 24/8mm
700-4510	Heatshrink tube red 3/1mm
700-4513	Heatshrink tube red 6/2mm
700-4517	Heatshrink tube red 9/3mm
700-4526	Heatshrink tube red 12/4mm
700-4529	Heatshrink tube red 18/6mm
700-4523	Heatshrink tube red 24/8mm
700-4532	Heatshrink tube black 3/1mm
700-4535	Heatshrink tube black 6/2mm
700-4539	Heatshrink tube black 9/3mm
700-4548	Heatshrink tube black 12/4mm
700-4541	Heatshrink tube black 18/6mm
700-4545	Heatshrink tube black 24/8mm
700-4554	Heatshrink tube white 3/1mm
700-4557	Heatshrink tube white 6/2mm
700-4551	Heatshrink tube white 9/3mm
700-4560	Heatshrink tube white 12/4mm
700-4567	Heatshrink tube white 18/6mm
700-4573	Heatshrink tube white 24/8mm
700-4582	Heatshrink tube green/yellow 3/1mm
700-4589	Heatshrink tube green/yellow 6/2mm
700-4595	Heatshrink tube green/yellow 9/3mm
700-4608	Heatshrink tube green/yellow 12/4mm
700-4611	Heatshrink tube green/yellow 18/6mm
700-4618	Heatshrink tube green/yellow 24/8mm