



Datasheet

RS PRO High shrink ratio polyolefin tubing 3:1

Stock number: see below

EN



Applications

It is a high shrink ratio military standard heat shrinkable tubing made of 135°C polyolefin material. In addition to the normally reliable insulation protection, the high shrink ratio is more suitable to be applied on the product with irregular outer diameters, and providing a more comprehensive coverage.

Characteristics

- Shrink ratio: 3:1
- Flame retardant (colors only)
- Resistant to common solvent liquid
- Excellent physical, chemical and electrical performance
- Compliance with RoHS

Operating temperature range

- Operating temperature: -55°C~135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C

Approvals / Specifications

- SAE-AMS-DTL-23053/5 class 1
- UL224 File no. E337635, 125°C VW-1 600V

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D638	≥11.3MPa
Elongation at break	≥200%	ASTM D638	≥400%
Tensile strength after aging	70% of unaged property value	ASTM D638 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D638 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-55°C/4 hrs)	No cracking
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 ¹⁴ Ω.cm	ASTM D876	≥10 ¹⁴ Ω.cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

Specifications

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