

61742400	DATA SHEET
Valid from: 09.11.2018	Shrink tube PROTECT

Shrink tubes PROTECT - PROTECT Box - PROTECT GN/YE- PROTECT Set



General Description:

- Very flexible, UL224 flame retardant thin wall heat shrink tubing with excellent physical and mechanical properties.
- Suitable for general purposes applications such as electrical insulation, strain relief, wire bundling and protection.

Technical data:

- Self-extinguishing UL224 - MIL Spec (colours only)
- Shrink ratio 2:1,
- Very good chemical, physical & electrical properties
- Available in a very wide range of colours (14),
- Shrink temperature > 90°C,
- Operating temperature -55°C to +135°C.

Dimensions:

Size inch	Size mm	Min. ID supplied mm	Max. ID recovered mm	Recovered wall thickness (NOM) mm
1.2/0,6	1.2	1.2	0.6	0.41
1.6/0.8	1.6	1.6	0.8	0.43
2.4/0.8	2.4	2.4	1.2	0.51
3.2/1.6	3.2	3.2	1.6	0.51
4.8/2.4	4.8	4.8	2.4	0.51
6.4/3.2	6.4	6.4	3.2	0.64
9.5/4.7	9.5	9.5	4.7	0.64
12.7/6.4	12.7	12.7	6.4	0.64
15.9/7.9	15.9	15.9	7.9	0.70
19.1/9.5	19.1	19.1	9.5	0.77
25.4/12.7	25.4	25.4	12.7	0.89
31.8/15.9	31.8	31.8	15.9	0.95
38.1/19.1	38.1	38.1	19.1	1.02
50.8/25.4	50.8	50.8	25.4	1.14
76.2/38.1	76.2	76.2	38.1	1.27
101.6/50.8	101.6	101.6	50.8	1.40

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Normative:

SAE-AMS-DTL-23053/5
Class 1 (colours)**

SAE-AMS-DTL-23053/5
Class 2 (clear)**

UL 224, 125°C
UL cert. E476215***

CSA C 22.22
No. 198.1-98, OFT***

Physical properties:

Description	Test method	Typical value
Tensile strength	ASTM D 638	13 N/mm ²
Elongation at break	ASTM D 638	350%
Longitudinal change	ASTM D 2671	-5% to +5%
Water absorption	ASTM D 570	0.20%
Specific gravity	ASTM D 792	1.45

Electrical properties:

Description	Test method	Typical value
Dielectric strength	ASTM D 2671	20 kV/mm
Volume resistivity	ASTM D 257	10 ¹⁶ ohm cm

Chemical properties:

Description	Test method	Typical value
Fungus resistance	ASTM G21	no growth
Chemical resistance	AMS-DTL-23053/5	good
Copper corrosion	ASTM D 2671 B	no corrosion

Thermal properties:

Description	Test method	Typical value
Heat shock 4 hours at 250°C	ASTM D 2671	no dripping, cracking or flowing
Heat aging 168 hours at 175°C	ASTM D 638	elongation 250%
Low temp. flexibility at -55°C	ASTM D 2671 C	no cracking
Flammability	UL224	pass (colours only)

Foot note:

Photographs are not to scale and do not represent detailed images of the respective products.