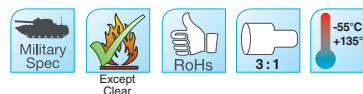


HSP3 - Premium grade 3:1 shrink ratio, polyolefin based heat shrinkable tubing



Features & Benefits

- Outstanding all round performance
- Flexible
- Good chemical and solvent resistance
- Excellent physical and electrical performance
- Operating temperature range -55°C to +135°C
- Flame Retardant



Specifications

Agency

Meets the requirements of UL 224

CSA Approved

CSA 400-U-9

Military

MIL-1-23053/5 Class 1 & 2

Def Stan 59 - 97 Type 2b

Standard Colours & Colour Codes

Black - 0	Yellow - 4	Grey - 8
Brown - 1	Green - 5	White - 9
Red - 2	Blue - 6	Clear - X
Orange - 3	Violet - 7	Green / Yellow - 45

Applications

HSP3 premium grade 3:1 shrink ratio polyolefin shrinkable tubing offers an outstanding overall balance of properties. The product has a wide range of both military and industrial approvals. HSP3 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications.

The 3:1 shrink ratio allows for installation into a wide range of substrate sizes with a small number of tubing sizes so inventory costs can be kept low. Used extensively in military applications, for lightweight harness jackets, insulation, colour coding, identification, protection against fluids and to provide mechanical strength.

Inside Diameter	Wall Thickness	Standard Package		
Expanded as supplied (min)	Recovered after heating (max)	Total Wall recovered after heating(nom)	Spool Quantity	
mm	mm	mm	mtrs	
1.5	0.5	0.45	300	ORDERING DESCRIPTION HSP3-1.5/0.5-colour code-SP
3.0	1.0	0.55	150	HSP3-3/1-colour code-SP
6.0	2.0	0.65	150	HSP3-6/2-colour code-SP
9.0	3.0	0.75	75	HSP3-9/3-colour code-SP
12.0	4.0	0.75	75	HSP3-12/4-colour code-SP
18.0	6.0	0.85	75	HSP3-18/6-colour code-SP
24.0	8.0	1.00	30	HSP3-24/8-colour code-SP
39.0	13.0	1.15	30	HSP3-39/13-colour code-SP

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. Other lengths, sizes and non-standard colours may be available subject to special orders.

Performance	Test	Test Method	Test Requirement
	Heat Ageing:	ISO 188 (168h at 175°C)	Ultimate elongation: 150% (min)
	Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors
	Dielectric strength:	IEC 243	20 MV/m
	Flame retardancy:	ASTM D876	Duration of burning 30s max
	Fluid resistance	24H at 23°C, ISO 37	Tensile strength: 5 MPa (min) Ultimate elongation: 200% (min)
	Test Fluids:		Aircraft fuel to ISO1817 liquid B Phosphate este ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101

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