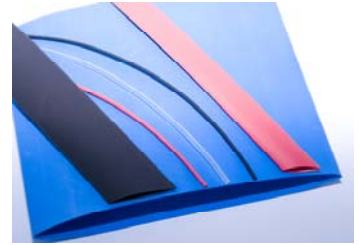


HSP3

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

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.

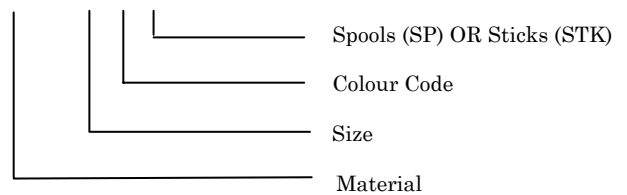
Specifications

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

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

HSP3-18/6-0-SP



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	ORDERING DESCRIPTION
1.5	0.5	0.45	300	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	Ultimate elongation: 150% (min)
Corrosion resistance:	ASTM D2671 (16h st 175°C)	No corrosion of mirrors
Dielectric strength:	IEC 243	20 MV/m
Flame retardancy:	ASTM D876 Meets The requirements of UL 224	Duration of burning 30 s max (All tube flame tested)
Fluid resistance	24H at 23°C, ISO 37 Test Fluids:	Tensile strength: 5 MPa (min) Ultimate elongation: 200% (min) Aircraft fuel to ISO1817 liquid B Phosphate este ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101