



## PRINTASHRINK SPF3

## TECHNICAL DATA

**Printashrink SPF is a 3:1 shrink ratio heatshrink polyolefin with a working temperature of 135°C. It is a UL approved, fire retardant sleeve which meets MIL-SPEC requirements making it perfect for aerospace, military, defence and other professional applications. It is available in several colours and sizes up to 39mm ID and can be [cut](#) and [printed](#) as required.**

This flexible 3:1 heatshrink polyolefin sleeve with a 135°C working temperature is perfect to cover irregular pieces or pass over larger components in situations where MIL-SPEC and/or UL approval is necessary or favourable. It is used in many industries including military/defence, aerospace, electrical, electronic and automotive sectors and is valued for its insulation, mechanical protection and strain relief properties for commercial applications. The higher shrink ratio also allows any one supplied diameter to fit a greater range of different sized applications. We offer our full range of printing and cutting services on this high quality, commercial sleeve making it perfect for identification, branding and marking requirements.

Properties	Typical Values	Test Methods
<b>GENERAL</b>		
Operating temperature	-55°C – +135°C	
Full recovery temperature	120°C	
Shrink temperature	>80°C	
Shrink ratio	3:1	
<b>PHYSICAL</b>		
Longitudinal change	+0% to -10%	
<b>THERMAL</b>		
Flammability	Pass (except clr)	ASTM D2671
Heat shock (4hrs)	No dripping, cracking or flowing	
Low temperature flexibility (4hrs @ -55°C)	No cracking	
Heat ageing (168hrs)	@ 175°C, no dripping, cracking or flowing	

- **SHRINK RATIO**  
3:1
- **SHRINK TEMPERATURE**  
80°C
- **OPERATING TEMPERATURE**  
-55°C – +135°C
- **COLOURS**  
Black, Red, Yellow, Blue, White, Clear, Other colours available upon request
- **SIZES**  
1.5/0.5mm – 39/13mm
- **PACKING**  
Reels, mini-reels, mini-packs, cut to length, kits, cut sleeves
- **PRINT**  
Yes, full range of text and logos in all colours
- **APPROVALS**  
AMS-DTL-23053/5  
CI 1, UL certified, CSA certified, Def Stan 59-97 Type 2b, VG 95343 Pt5 Type A+B, VDE 0341 Pt9005, BS 4G-198 Pt3 11B, RoHS compliant
- **APPLICATIONS / INDUSTRIES**  
General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive, Military-defence, Aerospace

### ELECTRICAL

Dielectric strength	20kV/mm min
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### CHEMICAL

Fluid resistance	At 23°C for 24hrs, aircraft fuel, phosphate ester based, lubricating oil ester based	ISO1871 Test liquids B, 103, 101
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Size (mm)	Supplied diameter (mm)	Shrunk diameter (mm)	Nominal wall thickness (mm)
1.5/0.5	1.5	0.5	0.45
3/1	3.0	1.5	0.55
4.8/1.6	4.5	1.0	0.55
6/2	6.0	2.0	0.65
9/3	9.0	3.0	0.75
12/4	12.0	4.0	0.75
18/6	18.0	6.0	0.85
24/8	24.0	8.0	1.00
39/13	39.0	13.0	1.15

Printasleeve Ltd is as diligent as possible in compiling and updating the above information. It reflects averages derived from product sample testing, is subject to normal manufacturing and testing tolerances and may be changed without notice. Furthermore aesthetic and textural style differences can result in local variation. For specific or further information concerning our products, their specifications and their utilisation please contact us.