

## Printashrink SPF3

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.

### Technical Data

- **Shrink Ratio:** 3:1
- **Shrink Temperature** >80°C
- **Operating Temperature** -55°C – +135°C
- **Flame Retardant:** Yes (except clear)
- **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



Properties	Typical Values	Test Methods
General		
Operating Temperature	-55°C – +135°C	
Full recovery temperature	120°C	
Shrink temperature	>80°C	
Shrink Ratio	3:1	
Physical		
Longitudinal change	+0% -10%	
Thermal		
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	
Electrical		
Dielectric strength	20kV/mm min	
Chemical		
Fluid resistance	At 23°C for 24hrs, aircraft fuel, phosphate ester based, lubricating oil ester based	ISO1871 Test liquids B, 103, 101

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. E & OE