



## PRINTASHRINK PF/A1 HW

## TECHNICAL DATA

**Printashrink PF/A1 HW is a heavy walled heatshrink polyolefin with an integral thermoplastic adhesive liner. With a 3:1 shrink ratio, it has all the advantages of the standard PF/A1 3-1 and provides maximum reliability resistance for insulating and protecting joints and terminations. It is available in black as standard in sizes up to 350mm ID and can be [cut](#) and [printed](#) as required.**

This glue lined, 110°C, heavy walled tube consists of a heatshrink polyolefin tube with a thermally activated inner adhesive liner. The inner liner melts and flows to encapsulate connectors and components providing moisture-resistant, environmental protection, strain relief and insulative properties which are perfect for high impact, abrasion, corrosion and chemical resistance. It is submersible and often used in direct burial installations. It is available in 1.2 metre lengths and with or without adhesive lining. We offer our full cutting and limited printing service on this specialist sleeve.

- **SHRINK RATIO**  
3:1
- **SHRINK TEMPERATURE**  
120°C
- **OPERATING TEMPERATURE**  
-55°C – +110°C
- **COLOURS**  
Black
- **SIZES**  
9/3mm – 350/95mm
- **PACKING**  
1.2 metre lengths, cut to length, cut sleeves
- **PRINT**  
Yes, subject to testing
- **APPROVALS**  
RoHS compliant
- **APPLICATIONS / INDUSTRIES**  
General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive, Marine

| Properties            | Typical Values          | Test Methods |
|-----------------------|-------------------------|--------------|
| <b>GENERAL</b>        |                         |              |
| Operating temperature | -55°C – +110°C (jacket) |              |
| Shrink temperature    | 120°C                   |              |
| Shrink ratio          | 3:1                     |              |
| <b>PHYSICAL</b>       |                         |              |
| Tensile Strength      | 14Mpa                   | ASTM D 638   |
| Ultimate elongation   | >400%                   | ASTM D 638   |
| Specific gravity      | 1.05 g/cm <sup>3</sup>  | ASTM-D 792   |
| Longitudinal change   | +0% to -10%             | UL 224       |
| Water absorption      | <0.15%                  | ISO 62       |

### THERMAL

|                      |                            |
|----------------------|----------------------------|
| Heat ageing (168hrs) | at 150°C, elongation >300% |
|----------------------|----------------------------|

### ELECTRICAL

|                     |                      |        |
|---------------------|----------------------|--------|
| Dielectric strength | >18kV/mm             | IEC 93 |
| Volume resistivity  | 10 <sup>13</sup> Ωcm | IEC 93 |

| Size (mm) | Supplied diameter (mm) | Shrunk diameter (mm) | Nominal wall thickness (mm) |
|-----------|------------------------|----------------------|-----------------------------|
| 9/3       | 9.0                    | 3.0                  | 1.80                        |
| 15/4      | 15.0                   | 4.0                  | 2.40                        |
| 22/6      | 22.0                   | 6.0                  | 2.70                        |
| 33/8      | 33.0                   | 8.0                  | 3.20                        |
| 40/12     | 40.0                   | 12.0                 | 4.10                        |
| 4/12      | 45.0                   | 12.0                 | 4.10                        |
| 55/16     | 55.0                   | 16.0                 | 4.10                        |
| 75/22     | 75.0                   | 22.0                 | 4.10                        |
| 85/25     | 85.0                   | 25.0                 | 4.30                        |
| 95/30     | 95.0                   | 30.0                 | 4.30                        |
| 115/34    | 115.0                  | 34.0                 | 4.30                        |
| 130/36    | 130.0                  | 36.0                 | 4.30                        |
| 160/50    | 160.0                  | 50.0                 | 4.30                        |
| 180/50    | 180.0                  | 50.0                 | 4.30                        |
| 200/60    | 200.0                  | 60.0                 | 4.30                        |
| 235/65    | 235.0                  | 65.0                 | 4.50                        |
| 250/65    | 250.0                  | 65.0                 | 4.50                        |
| 265/75    | 265.0                  | 75.0                 | 4.50                        |
| 300/85    | 300.0                  | 85.0                 | 4.50                        |
| 350/95    | 350.0                  | 95.0                 | 4.80                        |

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.