

**Long Outlet Shapes**

- Helashrink 140 Series, without rib

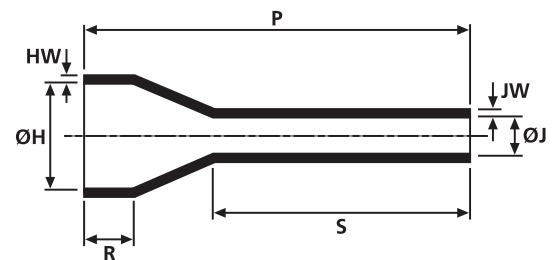
This style is low profile and lightweight, ideally suited to aerospace harness assemblies, the extended tail provides excellent strain relief and flexibility.



146-1 supplied / fully recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

**For Material / Adhesive selection and other information please refer to page 10.**

| Sizes and Type Table |           |           |           |           |         |         |          |          |       |
|----------------------|-----------|-----------|-----------|-----------|---------|---------|----------|----------|-------|
| Type                 | ØH min. a | ØH max. b | ØJ min. a | ØJ max. b | P ± 10% | R ± 10% | HW ± 20% | JW ± 30% | S nom |
| 146-1                | 20.1      | 14.5      | 20.1      | 5.3       | 127.0   | 15.7    | 2.0      | 2.0      | 97.0  |
| 146-2                | 22.3      | 14.5      | 10.2      | 5.3       | 127.0   | 15.7    | 2.0      | 2.0      | 97.0  |
| 148-1                | 30.5      | 18.0      | 30.5      | 7.9       | 146.0   | 15.7    | 2.0      | 2.0      | 125.0 |
| 148-2                | 30.5      | 18.0      | 15.2      | 7.9       | 146.0   | 15.7    | 2.3      | 2.3      | 125.0 |
| 149-1                | 41.2      | 21.8      | 41.2      | 10.2      | 162.1   | 22.4    | 2.3      | 2.3      | -     |

All dimensions in mm. Subject to technical changes.

| Combinations "On request" |          |   |   |   |   |
|---------------------------|----------|---|---|---|---|
| Adhesive                  | Material |   |   |   |   |
|                           | B7       | G | J | H | L |
| WM250                     | √        | √ | √ | √ | - |
| W8                        | √        | √ | √ | √ | - |
| W24                       | √        | √ | √ | √ | √ |
| V9500                     | √        | √ | √ | √ | - |
| HMT200A                   | -        | √ | √ | √ | - |
| W21                       | -        | - | - | √ | - |
| Without Adhesive          | √        | √ | √ | √ | √ |

| Standard combinations |          |
|-----------------------|----------|
| Article-No.           | Type     |
| 401-46001             | 146-1-B7 |
| 401-46009             | 146-2-G  |
| 401-48006             | 148-1-G  |
| 401-48016             | 148-2-J  |
| 401-49006             | 149-1-J  |