



## Heat shrinkable tubing up to 3.5:1 - 1 m lengths

### HA47 - thick wall adhesive lined

The toughness and weatherability makes it well suited for exposed applications and underground cable joints and cable terminations.

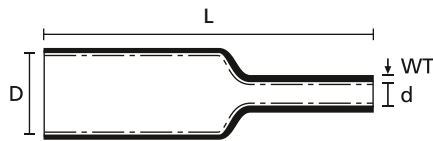
#### Features and benefits

- Thick wall polyolefin adhesive-lined sleeving
- Thermoplastic adhesive protects against moisture and weathering
- Used for low voltage power applications



Heavy wall tubing.

|  |                                 |
|--|---------------------------------|
| <b>MATERIAL</b>                            | Polyolefin, cross-linked (PO-X) |
| <b>Shrink Ratio</b>                        | up to 3.5:1                     |
| <b>Operating Temperature</b>               | -55 °C to +110 °C               |
| <b>Min. Shrink Temperature</b>             | +120 °C                         |
| <b>Softening Point Adhesive</b>            | +85 °C                          |
| <b>Longitudinal change after shrinkage</b> | -10 % max.                      |
| <b>Dielectric Strength</b>                 | 20 kV/mm                        |
| <b>Flammability</b>                        | not flame retarded              |
| <b>Insulation Class</b>                    | A (VDE 0530)                    |



Heat Shrinkable Tubing 3.5:1 with adhesive



| TYPE        | Supplied<br>Ø D min. | Recov.<br>Ø d max. | Wall<br>(WT) | Length<br>(L) | Colour     | Tools | Article-No. |
|-------------|----------------------|--------------------|--------------|---------------|------------|-------|-------------|
| HA47-9/3    | 9.0                  | 3.0                | 1.80         | 1.0 m         | Black (BK) | 30-32 | 321-20090   |
| HA47-13/4   | 13.0                 | 4.0                | 2.40         | 1.0 m         | Black (BK) | 30-32 | 321-20130   |
| HA47-19/6   | 19.0                 | 6.0                | 2.70         | 1.0 m         | Black (BK) | 30-32 | 321-20180   |
| HA47-33/8   | 33.0                 | 8.0                | 3.20         | 1.0 m         | Black (BK) | 30-32 | 321-20280   |
| HA47-45/12  | 45.0                 | 12.0               | 4.10         | 1.0 m         | Black (BK) | -     | 321-20450   |
| HA47-51/16  | 51.0                 | 16.0               | 4.10         | 1.0 m         | Black (BK) | -     | 321-20510   |
| HA47-68/22  | 68.0                 | 22.0               | 4.10         | 1.0 m         | Black (BK) | -     | 321-20680   |
| HA47-85/25  | 85.0                 | 25.0               | 4.30         | 1.0 m         | Black (BK) | -     | 321-20850   |
| HA47-105/30 | 105.0                | 30.0               | 4.30         | 1.0 m         | Black (BK) | -     | 321-20900   |
| HA47-130/36 | 130.0                | 36.0               | 4.30         | 1.0 m         | Black (BK) | -     | 321-21300   |
| HA47-160/50 | 160.0                | 50.0               | 4.30         | 1.0 m         | Black (BK) | -     | 321-21600   |
| HA47-180/50 | 180.0                | 50.0               | 4.30         | 1.0 m         | Black (BK) | -     | 321-21850   |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

| Recommended Tools |       |       |       |
|-------------------|-------|-------|-------|
|                   | 30    | 31    | 32    |
|                   | H5002 | H5004 | E4500 |
|                   | 568   | 568   | 567   |

For more information on toolings please refer to the Application Tooling chapter.

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