



## 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 Ø D min.	Recov. Ø d max.	Wall (WT)	Length (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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Heat Shrink Tubing and Sleeves](#) category:*

*Click to view products by [HellermannTyton](#) manufacturer:*

Other Similar products are found below :

[5685710001](#) [CR9960-000](#) [5734012004](#) [607381P039](#) [611112-000](#) [6284592002](#) [CX4711-000](#) [CZ1420-000](#) [D-306-38](#) [770-006S302](#) [770-010Y106W1](#) [770-018S103](#) [770-018S202W1](#) [770-018S205W1](#) [770-020S704W1](#) [770-020S705](#) [MFP-1/4"-Clear](#) [MFP-3/64"-Clear](#) [790-3012](#) [MHHT-4-15K2-G-104](#) [8003012003](#) [MIL-LT-1-1/2-4-SP](#) [MIL-LT-1-1/2-9-STK](#) [MIL-LT-1/2-2-STK](#) [MIL-LT-3-0-SP](#) [MIL-LT-3/32-0-SP](#) [MIL-LT-3/32-6-SP](#) [MIL-LT-3/4-4-STK](#) [MIL-LT-3/4-6-SP](#) [839602-000](#) [8423-6](#) [FP301-116-48"-Clear](#) [FP301-12-6"-Clear](#) [FP301-1/4-48"-White-Hdr](#) [FP301-18-48"-Black-Hdr](#) [FP301-1/8-6"-Black](#) [FP301-18-6"-Black-Bulk](#) [FP301-316-48"-Blue-Hdr](#) [912229N002](#) [R280637030](#) [HDCW-5515-1000](#) [HDT-0300-48A-BLACK](#) [HDT-0400-48A-Black](#) [HDT-0800-48A-RED](#) [HDT1100-48A-BLK](#) [HDT1500-48A-BLK](#) [HDT-2000-48A-Black](#) [RHW-70/20-1200/ADH-0](#) [DWP-125-0.450-4-55MM-CS879](#) [156082-000](#)