

## SHRINKFLEX® 3-1 BOOTS

### PROTECT CABLE TERMINATION FROM WATER, MOISTURE, AIR, & DIRT UV RESISTANT · MAXIMUM 1,000V

Specially designed for quick sealing and maximum strain relief, Shrinkflex® Boots provide complete insulation and protection when transitioning from single to multiple cables. An innovative, heat-activated interior adhesive coating forms a watertight seal and helps these boots conform snugly to conduits and cable jackets. Suitable for indoor and outdoor usage. These boots have an adhesive-coating on the body and the legs to form a durable watertight seal, and conform tightly to conduits and cable jackets.

#### SIZING CHART

Nominal Size	Part #	# Of Cores	Shrink Ratio	Length	*Put-Ups/Pcs.		Available Colors	Lbs/ 10Pcs.
					M	L		
1"	HB21.00BK	2	3:1	2.2"	2	10	1	0.13
1 1/8"	HB21.20BK	2	3:1	3.7"	2	10	1	0.16
1 1/2"	HB21.50BK	2	3:1	5"	2	10	1	0.20
2 1/2"	HB22.50BK	2	3:1	4.6"	2	10	1	0.65
1 1/2"	HB31.50BK	3	3:1	4.3"	2	10	1	0.82
2 1/2"	HB32.50BK	3	3:1	6.5"	2	10	1	1.27
1 1/2"	HB41.50BK	4	3:1	4.1"	2	10	1	0.41
2"	HB42.00BK	4	3:1	6"	2	10	1	1.03
3"	HB43.00BK	4	3:1	7"	2	10	1	1.92



#### FEATURES

Material	Polyolefin
Grade	HB
Monofilament Diameter	NA
Drawing Number	TF001HB-WD
Cutting	Scissors

#### COLORS



Black (BK)

#### CERTIFICATIONS



## CHEMICAL RESISTANCE

Corrosion

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	
Recommended Cutting	Scissors
Colors	1

## FLAMMABILITY

Rating

## OPERATING TEMPERATURES

Shrinks	248°F / 120°C
Maximum Continuous (Mil-I-23053)	230°F / 110°C
Minimum Continuous (Mil-I-23053)	-67°F / -55°C

## ELECTRICAL

Electric Strength (Kv/mm) (IEC 243)	15 Min.
-------------------------------------	---------

Nominal Size	Part #	Boot (Bigger End)		Breakout (Smaller End)		Wall Thickness		Max Voltage
		Before Shrinking /mm	After Shrinking /mm	Before Shrinking /mm	After Shrinking /mm	Inlet /mm	Outlet /mm	
1"	HB21.00BK	25.4	7.62	8.89	3.56	2.29	1.78	1,000
1 1/8"	HB21.20BK	30.48	12.7	13.97	4.57	2.54	2.29	1,000
1 1/2"	HB21.50BK	38.1	15.24	15.24	5.08	2.03	2.03	1,000
2 1/2"	HB22.50BK	63.5	22.86	25.4	7.62	2.54	2.54	1,000
1 1/2"	HB31.50BK	38.1	15.24	15.24	4.57	2.03	2.03	1,000
2 1/2"	HB32.50BK	63.5	25.4	25.4	7.62	3.05	2.54	1,000
1 1/2"	HB41.50BK	35.56	15.24	13.97	3.56	2.29	2.03	1,000
2"	HB42.00BK	50.8	45.72	20.32	5.08	3.10	2.54	1,000
3"	HB43.00BK	76.2	25.4	27.94	7.11	3.30	2.80	1,000

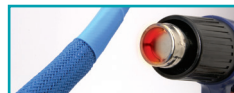
## HOW-TO



Measure the Shrinkflex® tubing to length and cut with a scissor. The thickness of your bundle, as well as the desired final appearance, will determine the length of the tubing you cut. Generally, a piece 1 1/2" - 2" long will accommodate almost any need. Single wires, or smaller bundles, require shorter pieces.



Slip the Shrinkflex® tubing over the bundle and position it so that both the sleeved and unsleeved portions are sufficiently covered. Notice the small pieces of tubing installed on single wires as part of a color coding system. If your project requires multiple operations, always work up from the smallest to the largest bundle.



Gently apply heat to Shrinkflex® tubing from a heat gun, hair dryer or torch with an appropriate attachment. Keep the heat source far enough away so that hot metal or direct flame does not come in contact with the tubing, wires or sleeving. Move the heat around the bundle to prevent damaging the sleeving and to ensure that all areas of the tubing have been shrunk. Once cooled, your installation is complete.

[www.TECHFLEX.com](http://www.TECHFLEX.com)

104 Demarest Road • Sparta, NJ 07871 • 1 (833) SLEEVEING • (973) 300-9242 • fax: (973) 300-9409

© 2023 Techflex® - Any unauthorized reproduction, in whole or part, in any medium whatsoever, without the express written permission of Techflex® is strictly forbidden. Techflex® product names and logos are registered trademarks of Techflex®, unless otherwise attributed. The contents and illustrations contained herein are believed to be reliable. Techflex® makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Techflex's® only obligations are those in standard terms of sale for these products and Techflex® will not be liable for any consequential or other damages arising due to misuse of these products or typographical errors or omissions. Users should make their own evaluation to determine the suitability of these products for their unique and specific applications.

01-01-23