



## SHRINKFLEX® 2:1 DIESEL

### HEAVY WALL, FLEXIBLE ELASTOMER POLYOLEFIN TUBING · SHRINKS TO 1/2 ITS ORIGINAL DIAMETER · HIGH RESISTANCE TO AVIATION FUELS, DIESEL FUELS, AND OILS

Diesel Shrinkflex® heatshrink tubing is the ideal way to create a tight, professional finish on any wire, hose or cable management project. Once shrunk, the tubing will hold its reduced state even in elevated temperatures. H2D is resistant to aviation and diesel fuels, hydraulic fluids and lubrication oils. It will protect wires, solder joints, terminals, connections and components from most industrial fuels, abrasion and mechanical damage. Slides easily over small inline splices and connectors, and provides a tight seal in many applications.

#### SIZING CHART

| Nominal Size | Part #    | Unshrunk Diameter /mm | Shrunk Diameter /mm | *Put-Ups |      | Available Colors | Lbs/100' |
|--------------|-----------|-----------------------|---------------------|----------|------|------------------|----------|
|              |           |                       |                     | M        | L    |                  |          |
| 1/8"         | H2D0.13BK | 3.2                   | 1.6                 | 25'      | 500' | 1                | 0.70     |
| 3/16"        | H2D0.19BK | 4.8                   | 2.4                 | 25'      | 250' | 1                | 1.00     |
| 1/4"         | H2D0.25BK | 6.4                   | 3.2                 | 25'      | 250' | 1                | 1.20     |
| 3/8"         | H2D0.38BK | 9.6                   | 4.8                 | 25'      | 200' | 1                | 1.75     |
| 1/2"         | H2D0.50BK | 12.8                  | 6.4                 | 25'      | 100' | 1                | 2.75     |
| 3/4"         | H2D0.75BK | 19.3                  | 9.5                 | 25'      | 100' | 1                | 4.75     |
| 1"           | H2D1.00BK | 25.4                  | 12.7                | 25'      | 100' | 1                | 8.80     |
| 1 1/4"       | H2D1.25BK | 31.8                  | 18.1                | 25'      | 100' | 1                | 12.60    |
| 1 1/2"       | H2D1.50BK | 38.2                  | 21.8                | 25'      | 100' | 1                | 12.20    |

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



#### FEATURES

|                       |             |
|-----------------------|-------------|
| Material              | Polyolefin  |
| Grade                 | H2D         |
| Monofilament Diameter | NA          |
| Drawing Number        | TF001H2D-WD |
| Cutting               | Scissors    |

#### COLORS



Black (BK)

#### CERTIFICATIONS





## CHEMICAL RESISTANCE

|                                       |              |
|---------------------------------------|--------------|
| Corrosion (ASTM DTL-23053)            | No Corrosion |
| Fluid Resistance (73°F/23°C, 24 hrs.) | Pass         |
| Fungus Resistance                     | No Growth    |

## PHYSICAL PROPERTIES

|   |                        |
|---|------------------------|
| Monofilament Diameter (ASTM D-204)                  | NA                     |
| Flammability Rating                                 | Self-Extinguishing     |
| Recommended Cutting                                 | Scissors               |
| Colors  | 1                      |
| Tensile Strength (psi) (ASTM D-638)                 | 1,200                  |
| Elongation (%) (ASTM D-638)                         | 250                    |
| Specific Gravity (ASTM D-792)                       | 1.4                    |
| Low Temperature Flex (-103°F/-75°C) (MIL-DTL-23053) | No Cracking            |
| Heat Shock (482°F/250°C) (MIL-DTL-23053)            | No Cracking            |
| Dielectric Strength (ASTM D-876)                    | 11.8kV/mm              |
| Volume Resistivity (ohm/cm) (ASTM D-876)            | 1.0 x 10 <sup>10</sup> |

## FLAMMABILITY

|        |                    |
|--------|--------------------|
| Rating | Self-Extinguishing |
|--------|--------------------|

## OPERATING TEMPERATURES

|                                  |                |
|----------------------------------|----------------|
| Shrinks                          | 302°F / 150°C  |
| Melt Point (ASTM D-2117)         | 392°F / 200°C  |
| Maximum Continuous (Mil-I-23053) | 248°F / 120°C  |
| Minimum Continuous (Mil-I-23053) | -103°F / -75°C |



## 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 1½" - 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) SLEEVING • (973) 300-9242 • fax: (973) 300-9409

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