

**HILEC 920**  
**BRAIDED FIRE RETARDANT PET MONOFILAMENT SLEEVING**

**THERMAL CLASS: 125°C**

**UL FILE E103867**

**CSA LR94072**

**DESCRIPTION**

**HILEC 920** is a lightweight, braided monofilament sleeving of flame retardant (PET) polyethylene terephthalate that offers VW-1 flame retardancy in addition to excellent abrasion and cut-through resistance as well as inertness to most chemicals and fungus. Its easy pullover application makes **HILEC 920** easier to use than heat shrink tubing, zipper tubing or spiral wrap protection. **HILEC 920** is available in a wide range of sizes for protecting wire bundles and harnesses ranging from 1/8" through 3 \_" O.D.

**RECOMMENDED USE**

**HILEC 920** is recommended for use over wires, tubing, cables, wire bundles, wire harnesses, and pneumatic hoses to provide tough, durable protection and convenient, low profile bundling of bulky, multiple elements. Its non-burning characteristics render **HILEC 920** particularly suitable for military, automotive, and aerospace applications where flammability is a critical issue.

**FEATURES**

- **HILEC 920** is rated for continuous service from -70°C through 125°C. and will tolerate short-term exposure up to 230°C.
- **HILEC 920** stretches and contracts to accommodate irregular shapes and sizes. A single sleeve size can stretch to encase bundles with diameters up to three times its own I.D.
- **HILEC 920** contracts to a snug fit producing a compact bundle with a smooth resilient cover, which prevents snagging during installation in cabinets and equipment.
- **HILEC 920** can be flexed repeatedly without losing its physical properties. Its open braid construction affords ventilation, preventing trapping of heat or moisture.
- **HILEC 920** is naturally slick allowing it to slide easily and quickly over end fittings and connectors, reducing labor cost. Bundled elements move freely within the sleeve reducing strain
- **HILEC 920** resists chafing, abrasion, cut-through, flexure-fatigue, and heat degradation
- **HILEC 920** adds minimal weight, bulk and cost to wire harnesses.

(over)

The above data is informational only and should not be used for specification purposes. 11/01

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**PHYSICAL PROPERTIES (strand)**

| <b>PROPERTY</b>                       | <b>ASTM METHOD</b> | <b>TYPICAL VALUES</b> |
|---------------------------------------|--------------------|-----------------------|
| <b>Strand Diameter</b>                | -                  | <b>.010"</b>          |
| <b>Tensile Strength, PSI</b>          | <b>D-876</b>       | <b>100,000</b>        |
| <b>Elongation, %</b>                  | <b>D-876</b>       | <b>20</b>             |
| <b>Specific Gravity</b>               | <b>D-792</b>       | <b>1.31</b>           |
| <b>Moisture absorption, 24 hrs, %</b> | <b>D-570</b>       | <b>0.08</b>           |
| <b>Fungus Resistance MIL I-631</b>    | -                  | <b>0.1</b>            |
| <b>Melt Temperature, °C</b>           | <b>D-2117</b>      | <b>320</b>            |
| <b>Flammability</b>                   | <b>UL 1441</b>     | <b>VW-1</b>           |

**AVAILABILITY**

• **SIZES**

| <b><u>NOMINAL ID</u></b> | <b><u>BUNDLE DIAMETER</u></b> |                   |
|--------------------------|-------------------------------|-------------------|
|                          | <b><u>MIN</u></b>             | <b><u>MAX</u></b> |
| 1/8                      | 3/32                          | 1/4               |
| 1/4                      | 1/8                           | 3/8               |
| 3/8                      | 3/16                          | 5/8               |
| 1/2                      | 1/4                           | 3/4               |
| 3/4                      | 1/2                           | 1-1/4             |
| 1-1/4                    | 3/4                           | 1-3/4             |
| 1-3/4                    | 1                             | 2-1/4             |
| 2                        | 1-1/4                         | 2-3/4             |

**LARGER SIZES AVAILABLE UPON REQUEST**

- **COLORS:** ***HILEC 920*** is available in black or white with a contrasting color tracer. A range of other colors is available subject to minimum order quantities.
- **BRANDNAMES:** ***HILEC 920*** is also available as ***FLEXI-WEAVE™ FR*** and ***VOL-X-SPAN™ FPET***.

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