

**ADVANCED ENGINEERING**

**Technical Data Sheet**

**GENERAL PURPOSE**

**Technical Data Sheet**

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**PET Polyethylene Terephthalate**

**Material**

**Grade**

**F6W**

**Filament Diameter**

.009” Monofilament Polyester
1200 Denier Multifilament

**Drawing Number**

TF001F6W-WD

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**High Coverage, Self-Wrapping Design**

**Easy, Cost Effective Installation**

**More Flexible than Split Convoluted or Spiral Wrap**

**Ideal For Protecting Components Without Disconnecting Them**

**Melt Temp. 482°F**

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**Woven, Split Tubular Harness Wrap**

Woven Wrap has been engineered from the ground up to meet the demanding specifications of today's modern wiring harness industry.

F6-WW utilizes many of the same characteristics as our original F6 split braided sleeving including the easy wrap around design and the extra overlap to insure complete protection of important electronic communication and power systems.

The new woven construction provides superior elastic flexibility with unbeatable coverage over any harness assembly. Through a unique process, the blend of monofilament and multifilament polyester fibers are formed into a sleeving with memory that causes the sleeve to self-close, and also snap back when opened.

Wire harness professionals will also appreciate the increased abrasion resistance F6-WW will provide to their cable assemblies.

**Colors Available:**

Black (BK), White (WH), & Carbon (CB).

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**Put-Ups**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Part #</th>
<th>Wall Thickness</th>
<th>Standard Put-Ups</th>
<th>Available Colors</th>
<th>Overlap “A”</th>
<th>Lbs/100’</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>F6W0.13</td>
<td>.027”</td>
<td>1,800’ 900’ 300’</td>
<td>BK, WH, CB</td>
<td>40%</td>
<td>0.57</td>
</tr>
<tr>
<td>3/16”</td>
<td>F6W0.19</td>
<td>.027”</td>
<td>1,200’ 600’ 200’</td>
<td>BK, WH, CB</td>
<td>51%</td>
<td>0.98</td>
</tr>
<tr>
<td>1/4”</td>
<td>F6W0.25</td>
<td>.027”</td>
<td>925’ 450’ 200’</td>
<td>BK, WH, CB</td>
<td>44%</td>
<td>1.10</td>
</tr>
<tr>
<td>5/16”</td>
<td>F6W0.31</td>
<td>.027”</td>
<td>650’ 325’ 125’</td>
<td>BK, WH, CB</td>
<td>40%</td>
<td>1.30</td>
</tr>
<tr>
<td>3/8”</td>
<td>F6W0.38</td>
<td>.027”</td>
<td>450’ 225’ 100’</td>
<td>BK, WH, CB</td>
<td>41%</td>
<td>1.50</td>
</tr>
<tr>
<td>1/2”</td>
<td>F6W0.50</td>
<td>.027”</td>
<td>300’ 150’ 75’</td>
<td>BK, WH, CB</td>
<td>35%</td>
<td>1.80</td>
</tr>
<tr>
<td>5/8”</td>
<td>F6W0.63</td>
<td>.027”</td>
<td>250’ 125’ 75’</td>
<td>BK, WH, CB</td>
<td>30%</td>
<td>2.10</td>
</tr>
<tr>
<td>3/4”</td>
<td>F6W0.75</td>
<td>.027”</td>
<td>150’ 100’ 50’</td>
<td>BK, WH, CB</td>
<td>28%</td>
<td>2.40</td>
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<tr>
<td>1”</td>
<td>F6W1.00</td>
<td>.027”</td>
<td>100’ 75’ 50’</td>
<td>BK, WH, CB</td>
<td>26%</td>
<td>3.20</td>
</tr>
<tr>
<td>1 1/2”</td>
<td>F6W1.50</td>
<td>.027”</td>
<td>50’ 25’ -</td>
<td>BK, WH, CB</td>
<td>23%</td>
<td>4.50</td>
</tr>
<tr>
<td>1 3/4”</td>
<td>F6W1.75</td>
<td>.027”</td>
<td>50’ 10’ -</td>
<td>BK, WH, CB</td>
<td>23%</td>
<td>5.00</td>
</tr>
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<td>2”</td>
<td>F6W2.00</td>
<td>.027”</td>
<td>40’ 10’ -</td>
<td>BK, WH, CB</td>
<td>23%</td>
<td>6.00</td>
</tr>
</tbody>
</table>

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**Cut Cleanly**

**Hot Knife**

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**The Right Overlap For Your Harness**

The engineered overlap allows ideal flexibility without exposing wires and cables.
ABRASION

Rating ____________ UL94VO

Low

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
72°F

Humidity
78%

Moderate Scuffing Visible
125 Test Cycles

Significant Scuffing; Braid Separated
Approx. 20%
225 Test Cycles

Braid Begins to Break; Material Destroyed
300 Test Cycles

Pre-Test Weight
9,736.4 mg

Post-Test Weight
9,328.6 mg

Test End Loss Of Mass
Point Of Destruction
407.8 mg

CHEMICAL RESISTANCE

1=No Effect   4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

Aromatic Solvents _____________ 2
Aliphatic Solvents _____________ 1
Chlorinated Solvents ____________ 3
Weak Bases ________________ 1
Salts ________________________ 1
Strong Bases _________________ 2
Salt Water 0-5-1926 ____________ 1
Hydraulic Fluid MIL-H-5606 ____________ 1
Lube Oil MIL-L-7808 ____________ 1
De-Icing Fluid MIL-A-8243 ____________ 1
Strong Acids _________________ 3
Strong Oxidants _______________ 2
Esters/Ketones ________________ 1
UV Light ________________ 1
Petroleum ________________ 1
Fungus ASTM G-21 ____________ 1
Halogen Free ________________ Yes
RoHS ________________________ Yes
SVHC ________________________ None

PHYSICAL PROPERTIES

Filament Diameter:
Monofilament Polyester _______ .009"
MultiFilament_________ 1200 Denier

Recommended Cutting _____ Hot Knife
Colors ________________ 3

Wall Thickness ___________ .027"

Tensile Strength ___________ 6-10
Specific Gravity ___________ 1.38
Moisture Absorption% ___________ 1-.2

Hard Vacuum Data ____________
ASTM E-595 at 10-5 torr

TML (%) ________________ .19
CVCM (%) ________________ .00
WVR (%) ________________ .16

Melt Point
ASTM D-2117
482°F (250°C)

Maximum Continuous
Mil-I-23053
257°F (125°C)

Minimum Continuous
-94°F (-70°C)