



- Extreme Abrasion And Cut Resistance
- Resists Gasoline, UV, Solvents, Salt Water And Chemicals
- Braided From .15 mil PET Monofilament

| Nominal Size | Part #    | Expansion Range |         | Bulk Spool | Shop Spool | Available Colors | Kgs/100m |
|--------------|-----------|-----------------|---------|------------|------------|------------------|----------|
|              |           | Min             | Max     |            |            |                  |          |
| 3,2mm        | HWN0.13BK | 1,6mm           | 4,8mm   | 152,4m     | 38,1m      | BK               | 0,40     |
| 9,5mm        | HWN0.38   | 4,8mm           | 19,1mm  | 152,4m     | 30,5m      | 3                | 1,22     |
| 15,9mm       | HWN0.63   | 7,9mm           | 22,2mm  | 76,2m      | 22,9m      | 3                | 1,64     |
| 25,4mm       | HWN1.00   | 12,7mm          | 38,1mm  | 76,2m      | 15,2m      | 3                | 2,38     |
| 38,1mm       | HWN1.50   | 19,1mm          | 50,8mm  | 76,2m      | 15,2m      | 3                | 3,72     |
| 50,8mm       | HWN2.00   | 38,1mm          | 76,2mm  | 61,0m      | 15,2m      | 3                | 5,06     |
| 76,2mm       | HWN3.00   | 50,8mm          | 101,6mm | 30,5m      | 15,2m      | 3                | 6,25     |
| 101,6mm      | HWN4.00   | 63,5mm          | 139,7mm | 30,5m      | 15,2m      | 3                | 6,25     |

### 50% Thicker For The Really Abrasive Jobs

When your application calls for more protection than our 10 mil products provide, our 15 mil Heavy Wall (HWN) is the ideal solution.

HW is commonly used in industrial and marine applications where extreme abrasion protection is critical. The durability of HW makes it ideal for protecting hoses and cables that have to withstand constant contact with rough and abrasive surfaces.

HW is the perfect solution for use on chains and cables to protect painted or laminated surfaces from scuffing and wear.

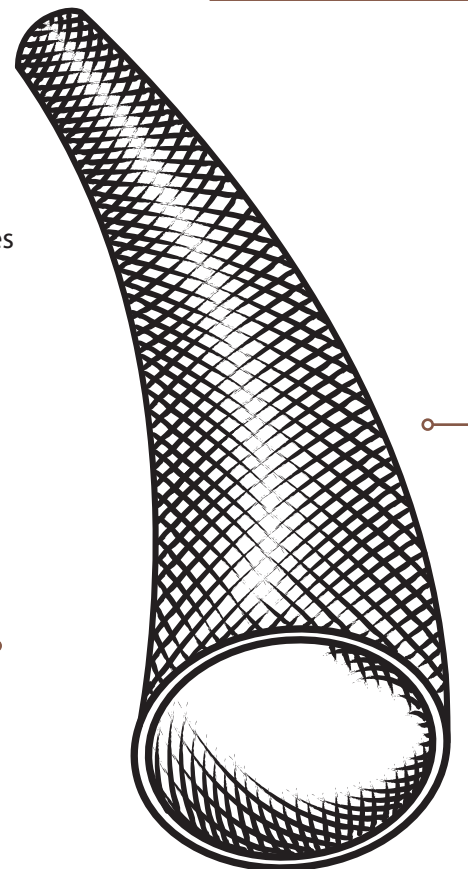
HW protects trailer hitch harnesses from abrasion, flying debris and UV damage without affecting flexibility or trapping moisture like convoluted tubing.

Colors Available:



Clear (CL), Carbon (CB), and Black (BK).

Colors Available:  
3 = BK, CL, and CB.



Cut Cleanly  
Hot Knife

Material  
Polyethylene Terephthalate

Grade  
HWN

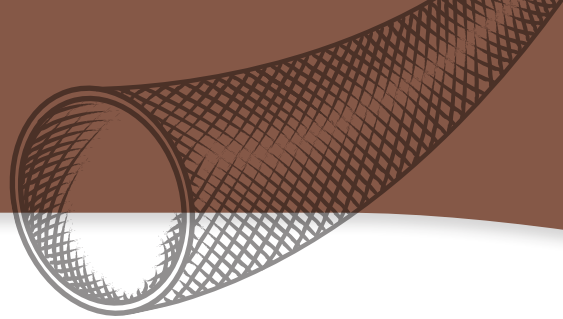
Monofilament Diameter  
0,38mm

Drawing Number  
TF001HWN-WD



7 boulevard de l'Odette  
35740 Pacé - France  
+ 33 2 23 30 05 15  
[www.CableOrganizer.fr](http://www.CableOrganizer.fr)





## ABRASION FLAMMABILITY

**Abrasion Resistance**  
Medium

Rating \_\_\_\_\_ UL94VO

**Abrasion Test Machine**  
Taber 5150

**Abrasion Test Wheel**  
Calibrase H-18

**Abrasion Test Load**  
500g

**Room Temperature**  
27°C

**Humidity**  
72%

**Two Broken Strands**  
200 Test Cycles

**Braid Worn Through In**  
**One Direction, In Several**  
**Places**  
700 Test Cycles

**Material Destroyed -**  
**Braid Worn Through In**  
**Both Directions**  
950 Test Cycles

**Pre-Test Weight**  
5 262,7 mg

**Post-Test Weight**  
4 979,9 mg

**Test End Loss Of Mass**  
**Point Of Destruction**  
239,3 mg

## CHEMICAL RESISTANCE

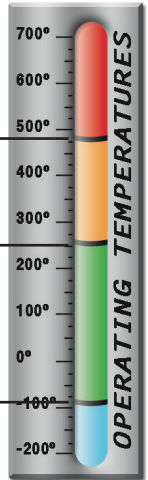
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

|                                  |      |
|----------------------------------|------|
| Aromatic Solvents _____          | 2    |
| Aliphatic Solvents _____         | 1    |
| Chlorinated Solvents _____       | 3    |
| Weak Bases _____                 | 1    |
| Salts _____                      | 1    |
| Strong Bases _____               | 2    |
| Salt Water 0-S-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 |

**Melt Point**  
ASTM D-2117  
482°F (250°C)

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

**Minimum Continuous**  
-94°F (-70°C)



## PHYSICAL PROPERTIES

|                                   |           |
|-----------------------------------|-----------|
| Monofilament Diameter _____       | 0,38mm    |
| ASTM D-204                        |           |
| Flammability Rating _____         | UL94      |
| Recommended Cutting _____         | Hot Knife |
| Colors _____                      | 3         |
| Wall Thickness _____              | 1mm       |
| Tensile Strength (Yarn) _____     | 10        |
| ASTM D-2256 Lbs                   |           |
| Specific Gravity ASTM D-792 _____ | 1,38      |
| Moisture Absorption _____         | 0,1-0,2   |
| % ASTM D-570                      |           |
| Hard Vacuum Data _____            |           |
| ASTM E-595 at 10-5 torr           |           |
| TML _____                         | 0,19      |
| CVCM _____                        | 0,00      |
| WVR _____                         | 0,16      |
| Smoke D-Max _____                 | 56        |
| ASTM E-662                        |           |
| Outgassing _____                  | Med       |
| Oxygen Index _____                | 21        |
| ASTM D-2863                       |           |