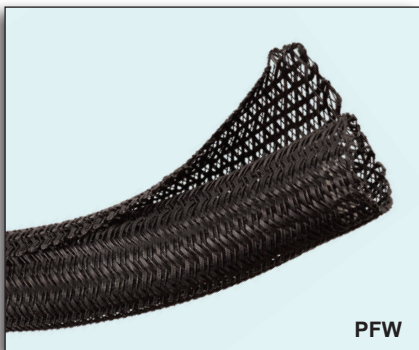
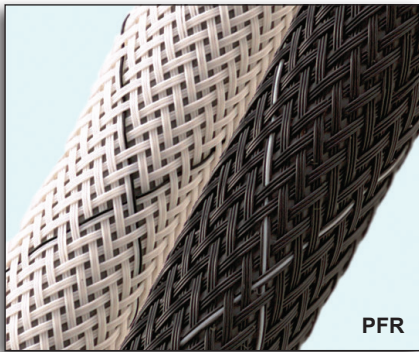


Protect-Fast™ Braided Sleeving



Protect-Fast™ Braided Sleeving is an efficient solution allowing for easy installation of wires or bundles of cable. It is a tough, lightweight method used to contain and protect cable assemblies, hoses and wire harnesses from abrasion and cutting.

- Aerospace
 - Automotive
 - Avionics
 - Cooking Equipment
 - Datacenters
 - HVAC
 - Medical
 - Military
 - Power Equipment
 - Solar Control panels
 - Telecom
 - In-Flight Entertainment systems
- PFI-HLW Wrap, made from tightly woven ballistic Nylon, is designed with an Oversize Hook & Loop Closure for industrial applications exposed to constant and extreme use often in harsh environments.
 - PFHH-NMX High Heat sleeving protects under intense heat up to 662°F. The Nomex® fireproof braided sleeving, with tensile strength of 90,000 psi is impervious to short term exposure to gasoline and most engine chemicals. Cuts easily with scissors and is soft and pliable for easy installation.

Features and Benefits:

| TYPE Feature | SLEEVE | | WRAP | |
|-----------------------------|--|---|---|-----------------------------------|
| | PFR | NMX | PFW | HLW |
| Material | Polyethylene Terephthalate Monofilament | Polyaramid Polymetaphenylene Isophthalamide | Polyethylene Terephthalate Monofilament | Polyimide 6 |
| Monofilament Diameter | 0.010" | N/A | 0.008" - 0.015" | N/A |
| Wall Thickness | 0.025" | 0.016" | Variable | 0.026" |
| Flammability Rating | UL VW-1 | FMVSS-302 Self Extinguishing | UL94 V-0 UL VW-1 | N/A |
| Industry Standard Approvals | Mil-202 FAR 25 FMVSS 302 FR-1 | Self Extinguishing | FAR 25 | N/A |
| Expansion | 150% Sleeve | None | 25% Overlap Wrap | None |
| Operating Temperature Range | -75°C to 125°C (-103°F to 257°F) | -60°C to 220°C (-76°F to 428°F) | -75°C to 125°C (-103°F to 257°F) | -51°C to 93°C (-60°F to 200°F) |
| Melt Temperature | 250°C (482°F) | 350°C (662°F) | 250°C (482°F) | 374°C (410°F) |
| Corrosion Resistance | *Little Effect to Affected | *No Effect to Little Effect | *Little Effect to Affected | *Little Effect to More Affected |
| Abrasion Resistance | High | Low | Medium | High |
| Recommended Cutting | Hot Knife | Scissors | Hot Knife | Scissors |
| Outgassing | Medium | N/A | Medium | High |
| Available Colors | Gray w/ White Tracer White w/ Black Tracer Black w/ White Tracer | Green Natural | Black w/ White Tracer | Black |

*Consult Chemical Resistance Chart

Nomex is a registered brand of the DuPont Corporation

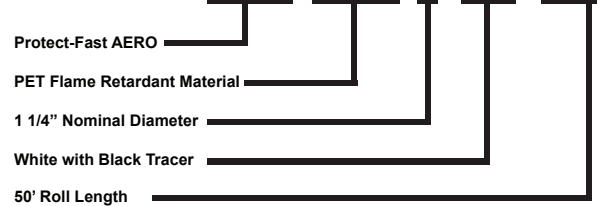
Protect-Fast™ Product Options

Protect-Fast PFR Braided Sleeving

| DTi Part No. | Nominal Size* | Expansion Range | Bulk Roll Sizes | Mini Roll Sizes | Available Colors |
|--------------|---------------|-----------------|-----------------|-----------------|---|
| PFA-PFR-1 | 1/4" | 1/8" - 7/16" | 1000' | 200' | Black w/ White Tracer (BT) Gray w/ White Tracer (GW) White w/ Black Tracer (WT) |
| PFA-PFR-3 | 1/2" | 1/4" - 3/4" | 500' | 100' | |
| PFA-PFR-4 | 3/4" | 1/2" - 1 1/4" | 250' | 75' | |
| PFA-PFR-6 | 1 1/4" | 3/4" - 1 3/4" | 250' | 50' | |
| PFA-PFR-7 | 1 1/2" | 1" - 2 1/8" | 200' | 40' | |
| PFA-PFR-9 | 2" | 1 1/2" - 3 1/2" | 200' | 50' | |

Order Examples

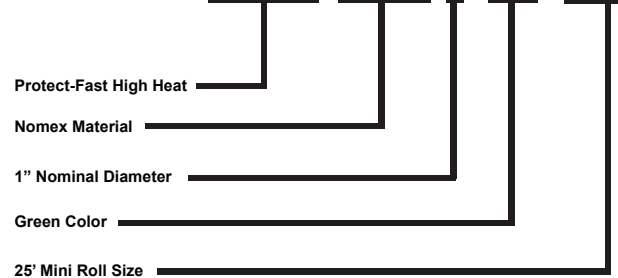
PFA-PFR-6-WT-0050



Protect Fast NMX Braided Sleeving

| DTi Part No. | Nominal Size | Expansion Range | Bulk Roll Sizes | Mini Roll Sizes | Available Colors |
|--------------|--------------|-------------------|-----------------|-----------------|------------------|
| PFHH-NMX-0 | 1/8" | 1/16" - 1/4" | 100' | 25' | Green (GN) |
| PFHH-NMX-1 | 1/4" | 1/8" - 5/16" | 100' | 25' | |
| PFHH-NMX-2 | 5/16" | 7/32" - 7/16" | 100' | 25' | |
| PFHH-NMX-3 | 3/8" | 1/4" - 1/2" | 100' | 25' | |
| PFHH-NMX-4 | 1/2" | 5/16" - 5/8" | 100' | 25' | |
| PFHH-NMX-5 | 5/8" | 7/16" - 7/8" | 100' | 25' | |
| PFHH-NMX-6 | 3/4" | 9/16" - 1" | 100' | 25' | Natural (NT) |
| PFHH-NMX-7 | 1" | 3/4" - 1 1/8" | 100' | 25' | |
| PFHH-NMX-8 | 1 1/4" | 1" - 2" | 100' | 25' | |
| PFHH-NMX-9 | 1 1/2" | 7/8" - 1 21/32" | 100' | 25' | |
| PFHH-NMX-10 | 1 3/4" | 1 3/4" - 1 55/64" | 100' | 25' | |

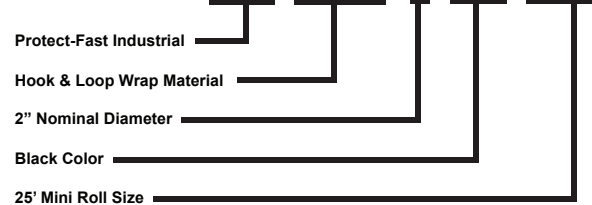
PFHH-NMX-7-GR-0025



Protect Fast HLW Braided Wrap

| DTi Part No. | Nominal Size | Bulk Roll Sizes | Mini Roll Sizes | Available Colors |
|--------------|--------------|-----------------|-----------------|------------------|
| PFI-HLW-5 | 1" | 100' | 25' | Black (BK) |
| PFI-HLW-7 | 1 1/2" | 100' | 25' | |
| PFI-HLW-9 | 2" | 75' | 25' | |
| PFI-HLW-10 | 2 1/2" | 75' | 25' | |
| PFI-HLW-11 | 3" | 50' | 25' | |
| PFI-HLW-12 | 3 1/2" | 50' | 25' | |
| PFI-HLW-13 | 4" | 50' | 25' | |
| PFI-HLW-14 | 4 1/2" | 50' | 25' | |
| PFI-HLW-17 | 6" | 50' | 25' | |

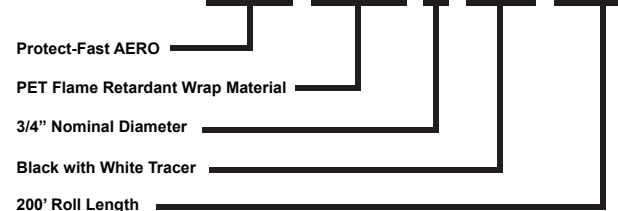
PFI-HLW-9-BL-0025



Protect-Fast PFW Braided Wrap

| DTi Part No. | Nominal Size | Bulk Roll Sizes | Mini Roll Sizes | Available Colors |
|--------------|--------------|-----------------|-----------------|------------------------------------|
| PFA-PFW-0 | 1/8" | 400' | 100' | Black with White Tracer (BT) |
| PFA-PFW-1 | 1/4" | 200' | 100' | |
| PFA-PFW-3 | 1/2" | 150' | 75' | |
| PFA-PFW-4 | 3/4" | 100' | 50' | |
| PFA-PFW-5 | 1" | 100' | 50' | |
| PFA-PFW-7 | 1 1/2" | 75' | 25' | |
| PFA-PFW-9 | 2" | 50' | 25' | |

PFA-PFW-4-BT-0200



*Other sizes available for PFW, and PFR material

Call Factory for precut lengths