

GENERAL PURPOSE EXPANDABLE BRAIDED MONOFILAMENT SLEEVING

- NU-GUARD G rated for continuous use from -70°C to 125°C but can withstand intermittent operation up to 150°C.
- UL & CSA Recognized Component:
UL File #E131769, CSA File #LR92464
- Applicable Specifications:
 - Ford E8ZB-18K459-AA (Chart)
 - Ford E77H-18K459-AA (Chart)
 - Ford E9TB-18K459-CA (Chart)
 - Chrysler 441414566 (Chart)
- RoHS and WEEE compliant.
- Low Temperature Flexibility: -70°C
- Available Sizes: 1/8" to 3"
- Packaging: Standard Spools, Bulk Spools, Cut to length.
- Colors: NU-GUARD G Standard color is Black. Other colors available are subject to factory quotation upon request.



DESCRIPTION

NU-GUARD G is a tough, lightweight expandable sleeving made of specially formulated Polyethylene Terephthalate (PET) .010" (10mil) monofilaments braided into a cylindrical sleeve. NU-GUARD G provides excellent abrasion and cut-through resistance protection, excellent chemical and fungus resistance and good mechanical properties. The flexible open weave construction allows each size to expand up to three times its original diameter for ease in pulling over irregular shapes. This open weave construction also provides for dissipation of heat and moisture, preventing condensation, and allowing for complete drainage. NU-GUARD G is also available in a heavy wall version NU-GUARD HD construction using .015" (15mil) diameter PET monofilaments for increased wear resistance.

USES

NU-GUARD G expandable monofilament braided sleeveings provide a tough, durable protection over tubing, hoses, wire, wire bundles, wire harnesses, cable assemblies and flat ribbon cable without adding critical weight, bulk and extra cost. The resistance of the polyester monofilaments to most oils, salt water, fuels, cleaners, solvents and chemicals makes it ideal for applications in harsh environments and in electronics, marine, and industrial wire harness applications. NU-GUARD G exhibits excellent stretch and flexibility even at low temperatures making it ideal for applications in machine tools, robotics, automated equipment and wherever exposure to extreme weather conditions is a concern.

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NU-GUARD G EXPANDABLE MONOFILAMENT BRAIDED SLEEVINGS		
CHARACTERISTICS OF GENERAL PURPOSE EXPANDABLE SLEEVINGS		
PROPERTY	TEST METHOD	NU-GUARD G PERFORMANCE
Tensile strength	ASTM D 876	100,000 psi
Elongation	ASTM D 876	25%
Specific Gravity	ASTM D 792	1.31
Moisture Absorption 24 hours	ASTM D 570	0.08%
Shrinkage @ 180°C		4%
Max. Operating temp.	UL 224	150°C
Melt Temperature	ASTM D 2117	250°C
Low Temp. Flexibility	MIL I 23053	-70°C
Flammability	UL 224	Does not burn
Thermal Aging	ASTM D 3045	175° for 3 hrs.
Flexural Modulus 10 ³ psi @ 73°	ASTM D 790	400
Fungus Resistance	MIL STD 810 (508)	No Growth
Copper Corrosiveness	MIL I 23053	No Effect

FLUID RESISTANCE

Testing verifies that there is virtually no effect on the tensile strength and maybe only a slight reduction (approximately 5%) in elongation of NU-GUARD G when exposed to the following fluids: cleaning fluid, de-icing fluid, fuel oil, gasoline, hydraulic fluid, lubricating oil, salt water and solvents.

GENERAL PURPOSE EXPANDABLE SLEEVING DIMENSIONS				
Nominal I.D. (inches)	Nominal I.D. (mm)	Delfingen Part No.	Size Range (inches)	Approximate weight (lbs / 1000 ft)
1/8	3.18	GP-321	3/32 – 9/32	1.8
1/4	6.35	GP-481	1/8 – 3/8	2.7
1/4	6.35	GP-243	1/8 – 3/8	3.9
3/8	9.53	GP-363	3/16 – 5/8	5.7
1/2	12.70	GP-483	1/4 – 3/4	7.4
3/4	19.05	GP-643	1/2 – 1 1/4	10.4
1 1/4	31.75	GP-963	3/4 – 1 3/4	15.9
1 3/4	44.45	GP-964	1 – 2 1/2	19.6
2	50.80	GP-1203	1 1/4 – 2 3/4	18.5
2 1/2	63.50	GP-1205	1 1/2 – 3 1/4	30.0
3	76.20	GP-1206	2 – 4	34.0

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