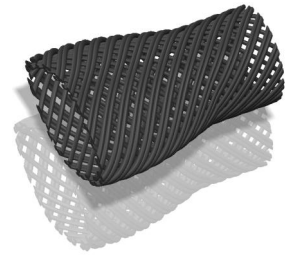


# Expandable Sleeve



## LANGOFLEX HD

LANGOFLEX HD is a tough, heavy duty expandable sleeving made of PET .015" (0.38mm) monofilaments braided into a cylindrical sleeve.

LANGOFLEX HD provides excellent abrasion and good mechanical properties. The flexible open braid construction provides complete drainage preventing heat, condensation and moisture.

LANGOFLEX HD is designed to protect tubes, hoses, wires, wire bundles, wire harnesses, cable assemblies and flat ribbon cables without adding critical weight, bulk and extra cost.

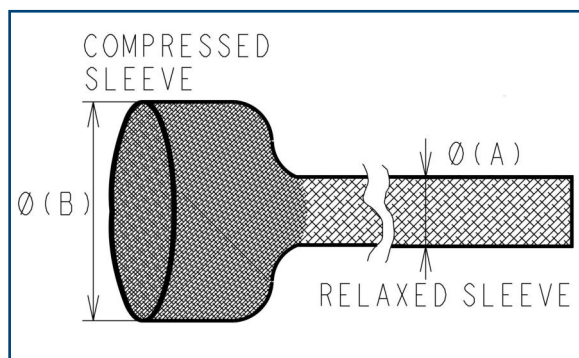
The good chemical resistance of the polyester material makes it ideal for applications in harsh environments and in electronics, marine, and industrial wire harness applications.

## Characteristics

**Colors:** standard color is black.

Physical properties	Specification	Unit	Value
Continuous temperature of use (3000h)	-	°C (°F)	-40/150 (-40/302)
Peak temperature (240h)	-	°C (°F)	175 (347)
Melting point	ASTM D 2117	-	255 (491)
Abrasion resistance	ISO 6722 SAE ARP 1536	cycles	39730 (Class 4) 154000
Flammability	SAE J 369 D45 1333	-	self-extinguishing
Chemical resistance	SAE J 2192 D47 1924	Resists to chemicals and automotive fluids (oils, coolant, battery liquid, brake fluid, gasoline, urea...)	

## Dimensions



Designation	Nominal A Ø (mm)	Maximum B Ø (mm)
LANGOFLEX HD 10	10	19
LANGOFLEX HD 16	16	24
LANGOFLEX HD 25	25	34
LANGOFLEX HD 38	38	50
LANGOFLEX HD 50	50	76
LANGOFLEX HD 76	76	114

Diameter is measured over a mandrel. Length for cut pieces are measured in a relaxed position.

## Approvals

Direct: General Motors.

## Packaging

LANGOFLEX HD is delivered in coils or in cut lengths upon request.

