



## Application

Multipurpose economic braided sleeve for protecting or bundling of cables, wires, pipes and hoses such as electrical harnesses, fluid pipes, air conditioning pipes

## Features

- highly expandable
- very flexible
- lightweight but tough polyester monofilaments
- push-back effect enables an easy application of Canuflex PE-HB
- resistant against chemicals and abrasion
- no emergence of condensation water
- self-extinguishing due to braided construction
- continuous working temperature:  $-50^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

## Colours

Standard: black

Other colours on request with minimum order quantity

## Anwendungsbereiche

Kostengünstiger Universalgewebeslauch zum Schutz oder zur Bündelung von Kabeln, Drähten, Schläuchen und Leitungen wie Kabelbäume, medienführende Leitungen, Klimaleitungen

## Eigenschaften

- stark dehnbar
- sehr flexibel
- leichtes aber gleichzeitig robustes Polyester Monofilament
- Push-back-Effekt ermöglicht einfache Verarbeitung von CanuFlex PE-HB
- abriebfest und beständig gegen Chemikalien
- keine Kondenswasserbildung
- selbstverlöschend aufgrund der Geflechtstruktur
- Dauereinsatztemperatur:  $-50^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

## Farben

Standard: Schwarz

Andere Farben auf Nachfrage mit Mindestabnahmemenge



## Technical Data Technische Daten

Material Properties Materialeigenschaften		Value	Wert	Test Method	Testmethode
Braid	Gewebe	Polyester PET HB monofilament, cadmium, halogen, silicone and formaldehyde free	Polyester PET HB Monofilament, cadmium-, halogen-, silikon- und formaldehydfrei		
Colour	Farbe	black	schwarz		
Specific Gravity	Spezifisches Gewicht	1,32 g/cm <sup>3</sup> max.	1,32 g/cm <sup>3</sup> max.	ASTM-D 792, A-I	ASTM-D 792, A-I
Yarn Diameter	Garndurchmesser	0,25 mm	0,25 mm	DIN 65164 part 1 and 2	DIN 65164 Teil 1 und 2

Mechanical Properties Mechanische Eigenschaften		Value	Wert	Test Method	Testmethode
Abrasion Resistance	Abriebfestigkeit	> 5000 T > 144.000	> 5000 T > 144.000	DIN 53 528 D44 1959	DIN 53 528 D44 1959
Strength	Zugspannung	50 MPa	50 MPa		
Elongation	Reißdehnung	50 – 300%	50 – 300%		
Modulus of elasticity	Dehnmodul	ca. 3100 MPa	ca. 3100 MPa		

Thermal Properties Thermische Eigenschaften		Value	Wert	Test Method	Testmethode
Cold Bend Test	Kältebiegetest	Does not break at –50°C	kein Brechen bei –50°C	ASTM-D 2671 Method C	ASTM-D 2671 Methode C
Combustion behaviour	Brennverhalten	passed	bestanden	FMVSS 302	FMVSS 302
Limiting Oxygen Index	Sauerstoff-Index	34%	34%	Test report available	Testreport erhältlich
Fumes Toxicity	Rauch-Toxizität	passed	bestanden	CET DEC 26-0611	CET DEC 26-0611
Melting Temperature	Schmelzpunkt	+ 250°C	+ 250°C	IEC 216	IEC 216
Temperature Range max.	Maximaler Temperaturbereich	+ 200°C temporary	+ 200°C kurzzeitig		
Continuous temperature	Dauertemperaturbereich	–50°C to +150°C	–50°C bis +150°C		

Chemical Properties Chemische Eigenschaften		Value	Wert	Test Method	Testmethode
Resistance against Chemicals	Beständigkeit gegenüber Chemikalien	good*	gut*		
Water Absorption	Wasseraufnahme	0,1% max.	0,1% max.	VDE 0472	VDE 0472
UV Resistance	UV-Beständigkeit	very good	sehr gut		

\*Alcalescent or weakly acidic materials, oils, fats, aliphatic and aromatic hydrocarbons.

\*Alkalische oder schwach saure Materialien, Öle, Fette, kettenförmige und aromatische Kohlenwasserstoffe.

## Product Data Sheet

### CanuFlex PE – HB

#### Braided Sleeve

**CanuFlex PE-HB:** Customized Polyester Monofilament 0.25 mm expandable Sleeving available in different colours.

An economical answer to the installing, protecting, strengthening, enhancing, assembling over bundles, wires, cables and flexible piping's, this expandable braided sleeving is made of lightweight but tough polyester monofilaments.

The push back effect of this product gives the opportunity to cover a wide range of sizes with only few references. This particular push-back effect enables an easy application of CanuFlex PE-HB

With continuous working temperature of -50°C to +150°C and a resistance to most chemicals, CanuFlex PE-HB can be used in hostile conditions and is suitable for all industries. Moreover, CanuFlex PE-HB is self-extinguishing due to its braided construction.

**WORKING TEMPERATURE:** - 50°C to +150°C

**STANDARD COLOURS:** Black, on request: Blue, Red, Yellow, Grey, Orange, Green, White

Nominal Diameter (mm)	Suggested Range of Use (mm)	Construction		Reel length (m)
		n° Yarns	Weight g / 100 m	
3	2 - 5	60	400	500
4	3 - 7	72	490	500
5	4 - 9	84	580	500
8	7 - 13	120	810	300
10	9 - 15	144	1040	300
12	11 - 17	168	1160	300
15	13 - 20	192	1380	300
20	18 - 25	256	2000	200
25	22 - 30	288	2400	200
30	27 - 40	384	3160	150
40	35 - 50	480	4200	100
50	45 - 60	600	4900	100

#### PACKAGING OPTIONS:

Supplied in standard Coils. Reels from bulk to small user mini reels. Mini Boxes.

Cut Lengths: Sealed with our special hot knife machine to stop fraying.

**APPLICATIONS:** Electrical Harnesses, Flexible Technical Hoses, Rigid Pipes

**MARKETS:** Auto Sport, Rail traction, Aerospace, Military Vehicles, Industrial, Electronics, Fuel Delivery Vehicles + Equipment

Technical Data		Current Values	Test Methods
	<b>Material</b>  <b>Colour</b> <b>Specific Gravity</b> <b>Yarn Diameter</b>	Polyester PET HB monofilament, cadmium, halogen, silicone and formaldehyde free black 1,32 g/cm <sup>3</sup> max. 0,25 mm	ASTM-D 792, A-I DIN 65164 part 1 and 2
<b>Mechanical Properties</b>	<b>Abrasion Resistance</b>  <b>Tensile Strength</b> <b>Elongation</b> <b>Modulus of elasticity</b>	> 5000 T > 144.000 50 MPa 50 – 300 % ca. 3100 MPa	According to DIN 53 528 According to D44 1959
<b>Thermal Properties</b>	<b>Cold Bend Test</b> <b>Combustion behaviour</b> <b>Limiting Oxygen Index</b> <b>Fumes Toxicity</b> <b>Melting Temperature</b> <b>Temperature Range max.</b> <b>Continuous</b>	Does not break at -50°C passed 34 % passed + 250°C + 200°C temporary -50°C to +150°C	ASTM-D 2671 Meth. C FMVSS 302 Test Report Available CET DEC 26-0611 IEC 216
<b>Chemical Properties</b>	<b>Resistance against Chemicals</b> <b>Water Absorbtion</b> <b>UV Resistance</b>	Good*  0,1 % max. very good	VDE 0472

\* Alcalescent or weakly acidic materials, oils, fats, aliphatic and aromatic hydrocarbons.

Unstable: Strong acidic or alkaline materials, longer impact of hot water

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