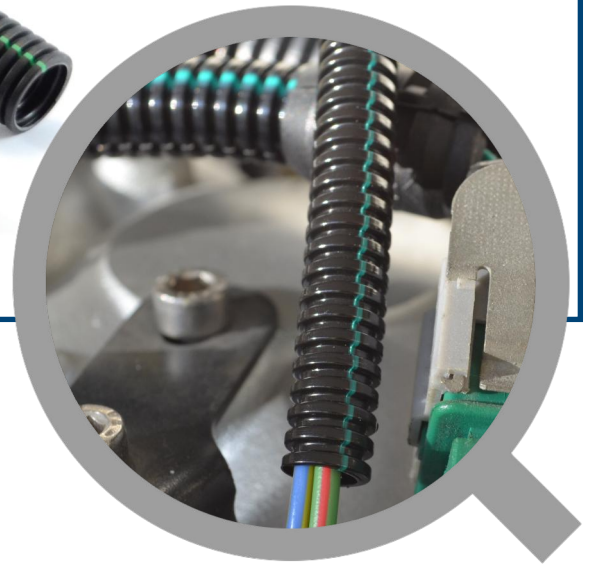


Convolute Tubing



SOFLEX

SOFLEX convoluted tubing is designed to protect and insulate wire harnesses in vehicles.

The ribs profile is conform to European specifications. It is suited for harsh environments and protects against mechanical risks: abrasion, crushing, chafing...

SOFLEX has excellent chemical resistance.

Branching and fastening Delfingen accessories are compatible with the SOFLEX profile (collars, elbows, T or Y fittings, clips...).

The tube can be delivered slit or non-slit. An assembly tool can also be supplied for easy installation over the wires.



Material

SOFLEX is available in different material grades of polypropylene (PP), polyamide (PA) or in polyester. A polypropylene material can also be proposed in a UL94 V-0 grade upon request, following validation steps.

Characteristics

Colors: standard colors are black and orange. Any other color upon request.

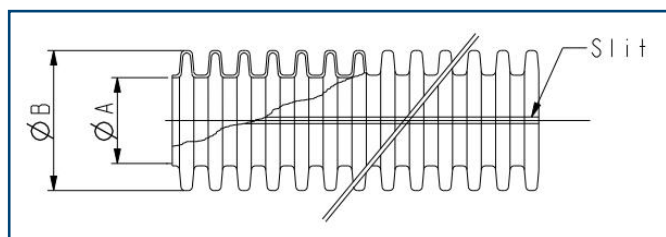
A color stripe can be added to identify the material grade depending on the specification.

Physical properties	Unit	Standard & flame retardant PP	High heat & high heat flame retardant PP	Standard polyamide	High heat impact modified PP	Low heat stabilized & flame retardant PA	Heat stabilized & flame retardant PA	Polyester flame retardant
Thermal properties								
Continuous temperature of use - min/max	°C (°F)	-40/100 (-40/212)	-40/125 (-40/257)		-40/130 (-40/266)	-40/140 (-40/284)	-40/150 (-40/302)	-40/150-175 (-40/302-347)
Peak temperature	°C (°F)	125 (257)	150 (302)		155 (311)	165 (329)	175 (347)	175-200 (347-392)
Mechanical properties								
Tensile strength at break - ISO 527	MPa	>27.5	17 - 20	85	>27.5	45	100	-
Elongation at break - ISO 527	%	>600	>600	>45	>50	20	700	-
Tensile modulus - ISO527	MPa	-	-	-	-	-	750	350
Izod notched impact strength (23°C/73°F) - ISO 180	kJ/m ²	-	-	-	-	-	-	N
Izod notched impact strength (-30°C/-22°F) - ISO 180	kJ/m ²	-	-	-	-	-	-	8
Other properties								
Density - ISO 1183	g/cm ³	0.90 - 0.94	0.91 - 0.97	1.13	0.98	1.15	1.15	1.27
Flammability - FMVSS 302	mm/min	<100 & self-exting.	<100 & self-exting.	<100	<100	self-exting.	self-exting.	self-exting.

Chemical resistance

Resists the majority of chemicals and automotive fluids (oils, coolant, battery liquid, brake fluid, fuels, windshield washer...)

Dimensions



Approvals

- Direct: Fiat, Opel, Peugeot-Citroën, Renault-Nissan, Renault Trucks/Volvo Trucks.
- Via Tier-1: Ashok Leyland, Mahindra, Tata Motors.

Packaging

SOFLEX is delivered in containers, half-containers, coils or cut lengths from 15 to 2,000 mm (other lengths upon request only).

Designation	ID A Ø (mm)	OD B Ø (mm)
SOFLEX 04.5	4.5	7.2
SOFLEX 06	6.65	9.6
SOFLEX 09	9.4	13.25
SOFLEX 11	12.3	16.4
SOFLEX 13	14.05	18.4
SOFLEX 16	16.35	21.15
SOFLEX 19	19.25	24
SOFLEX 23	23.5	28.6
SOFLEX 26	25.8	31.65
SOFLEX 29	29.3	35.9
SOFLEX 32	32.05	39.4

Delfingen_SOFLEX_v3.5

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