

Convolute Tubing



SOFORD

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

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

SOFORD has excellent chemical resistance.

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

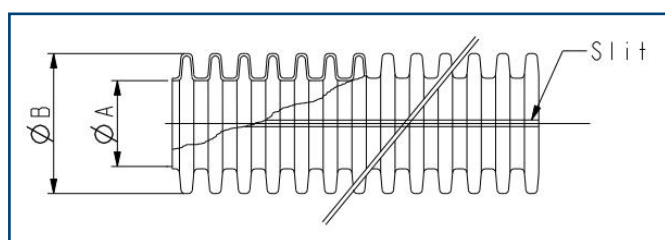
Characteristics

- **Colors:** standard color is black. Any other color upon request.
A color stripe can be added to identify the material grade depending on the specification.
- **Material:** standard materials are shown in this table. A polypropylene material can also be proposed in a UL94 V-0 grade upon request, following validation steps.

Physical properties	Specification	Unit	Standard polypropylene	Heat stabilized polypropylene	Heat stabilized flame retardant polypropylene	High heat polyester	High heat flame retardant polyester
Thermal properties							
Continuous temperature of use - min/max	-	°C (°F)	-40/100 (-40/212)	-40/125 (-40/257)	-40/125 (-40/257)	-40/150 (-40/302)	-40/150 (-40/302)
Peak temperature	-	°C (°F)	125 (257)	150 (302)	150 (302)	175 (347)	175 (347)
Mechanical properties							
Tensile strength at break	ISO 527	MPa	>27.5	25	17	48*	-
Elongation at yield	ISO 527	%	-	11	-	-	-
Elongation at break	ISO 527	%	>600	500	>600	750*	-
Tensile modulus	ISO 527	MPa	-	-	-	-	350
Izod notched impact strength (23°C/73°F)	ASTM D256	kJ/m²	-	-	-	no break	N
Izod notched impact strength (-30°C/-22°F)	ASTM D256	kJ/m²	-	-	-	no break	8
Other properties							
Density	ISO 1183	g/cm³	0.90	0.91	0.92	1.26	1.27
Flammability	FMVSS 302	mm/min	<100	<100	self-extinguishing	<100	self-extinguishing
Chemical resistance	Resists the majority of chemicals and automotive fluids (oils, battery liquid, brake fluid, fuels...)						

* ASTM D638 specification.

Dimensions



Approvals

- Direct: Ford, Jaguar/Land Rover.
- Via Tier-1: Volvo Cars Corp.

Packaging

SOFORD 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)
SOFORD 04.5	4.65	7.1
SOFORD 06	6.65	9.65
SOFORD 07.5	7.4	10.2
SOFORD 08.5	8.6	11.7
SOFORD 10	9.1	12.8
SOFORD 12	11.6	15.4
SOFORD 13	13	17.25
SOFORD 14	14.3	18.6
SOFORD 16	15.2	19.5
SOFORD 17	16.5	20.9
SOFORD 19	19.5	23.8
SOFORD 22	22.1	27
SOFORD 23	23.5	28.75
SOFORD 26	25.8	31.8
SOFORD 29	29.3	36.15
SOFORD 32	32.05	39.65

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