

Specialty Convuluted Tubing



INOFLEX

INOFLEX convoluted tube is designed to protect wiring harnesses from abrasion but also is specially designed to manage wire routing in vehicles.

INOFLEX is a combination of rigid and flexible profiles letting to adjust perfectly to the vehicle shapes.

The rigid part lessens the number of fastening points and the flexible part supports a small curve radius.

INOFLEX is **100% customized product**, depending on the protection and routing needs.

It can be delivered non-slit, slit or opened and it is compatible with all Delfingen accessories for branching or fastening purposes (collars, Y or T fittings, clips...).

Options:

- Opening for adding branch tubing
- Built-in fastening
- 3D forming for routing ease

Characteristics

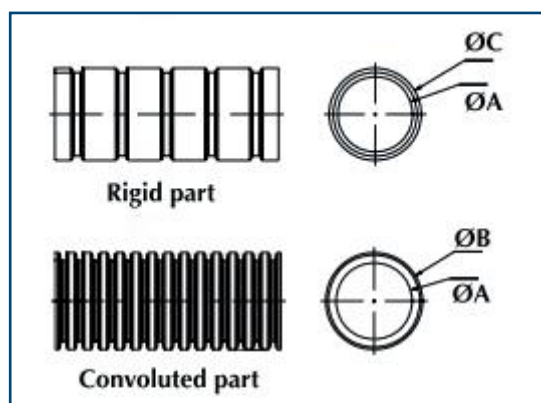
- **Colors:** standard colors are black and orange.
- **Material:** INOFLEX is available in different plastic grades based for example on polypropylene (PP) or polyamide (PA). A polypropylene material can also be proposed in a UL94 V-0 grade upon request, following validation steps.

The following table is for information only, showing properties for standard PP and PA materials. Other materials can be also proposed.

Physical properties	Specification	Unit	Standard PP	Standard PA
Thermal properties				
Continuous temp. of use - min/max (3000h)	-	°C (°F)	-40/100 (-40/212)	-40/125 (-40/257)
Peak temperature (240h)	-	°C (°F)	125 (257)	150 (302)
Mechanical properties				
Tensile strength at break	ISO 527	MPa	>27.5	85
Elongation at break	ISO 527	%	>600	>45
Hardness	ISO 868	Shore D	66	70
Other properties				
Density	ISO 1183	g/cm ³	0.90	1.13
Flammability	FMVSS 302	mm/min	<100	<100

Dimensions

INOFLEX is a non-standard product. The design is customized and depends on the requested size and length. The availability of toolings needs to be verified for each samples request.



Designation	Rigid part (mm)		Convolute part (mm)	
	ØA (ID)	ØC (OD)	ØA (ID)	ØB (OD)
standard rib profile				
INOFLEX 06	5.5	8.7	5.5	9.6
INOFLEX 09	9	12.1	9	13.25
INOFLEX 11	11	15.3	11	16.4
INOFLEX 13	12.5	16.6	12.5	18.5
INOFLEX 16	15.5	19.9	15.5	21.15
INOFLEX 19	18	22.85	18	24.05
INOFLEX 23	22.5	27.9	22.5	28.6
heavy duty rib profile				
INOFLEX 10	10	12.6	/	/
INOFLEX 17	15.5	19.75	15.5	21
INOFLEX 22	20	25.1	20	25.4

Approvals

Direct: Ford, General Motors, Renault-Nissan.

Packaging

INOFLEX is delivered in cut lengths, cardboard or returnable boxes.

Data and photos for information only. Delfingen makes no warranties as to the accuracy or completeness of this information. Delfingen reserves the right to make changes in materials or processing without notification.

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