

Convolute Tubing



SYFLEX

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

The ribs profile conforms to Japanese Industrial Standards (JIS) and meets the major manufacturers' requirements.

SYFLEX has excellent chemical resistance.

It is suited for harsh environments and protects against mechanical risks: abrasion, crushing, chafing...

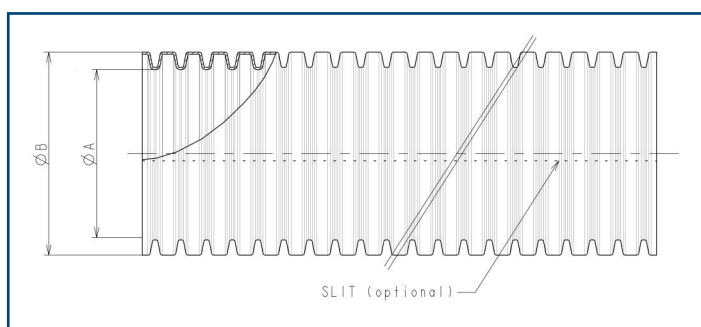
The tube can be delivered slit or non-slit. An assembly tool can also be supplied for easy installation over the wires.

Characteristics

- **Colors:** standard color is black. Any other color upon request.
- **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	Spec.	Unit	Standard polypropylene	Flame retardant & self-extinguishing polypropylene	Standard polyamide	Halogen free flame retardant polyamide	Heat stabilized flame retardant polyamide
Thermal properties							
Continuous temperature of use - min/max	-	°C (°F)	-40/100 (-40/212)	-40/100 (-40/212)	-40/125 (-40/257)	-40/125 (-40/257)	-40/150 (-40/302)
Peak temperature	-	°C (°F)	125 (257)	125 (257)	150 (302)	150 (302)	175 (347)
Mechanical properties							
Tensile strength at break	ISO 527	MPa	>27.5	>27.5	>34.3	>34.3	>34.3
Elongation at break	ISO 527	%	>600	>50 - >600	>100	>100	>100
Other properties							
Density	ISO 1183	g/cm ³	0.90	0.94 - 1.01	1.13	1.15 (ASTM D792)	1.15
Flammability	FMVSS 302	mm/min	<100	-	-	V2 (UL94)	self-extinguishing
Oxygen index	JIS K 7201	%	>15	>23.5	>15	>23.5	>15
Chemical resistance	-	-	Resists the majority of chemicals and automotive fluids (oils, coolant, battery liquid, brake fluid, fuels, windshield washer...)				

Dimensions



Designation	ID AØ (mm)	OD BØ (mm)
SYFLEX 05	5.4	7.8
SYFLEX 07	7.4	10.2
SYFLEX 10	10.6	14.1
SYFLEX 13	13.1	17.5
SYFLEX 15	15.1	19.5
SYFLEX 17	17.3	21.7
SYFLEX 19	19.4	23.8
SYFLEX 22	22	27
SYFLEX 25	25	30
SYFLEX 28	28.1	34
SYFLEX 32	32.4	38
SYFLEX 36	36.7	44

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Approvals

- Direct: Renault-Nissan.
- Via Tier-1: Honda, Mazda, Suzuki, Toyota.

Packaging

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

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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