

About Us

Corrugated Tubes were first developed in Germany in 1959. Due to their unique techno-economic advantages this revolutionary idea spread to the entire world.

Tubecraft specialises in the manufacture of corrugated flexible tubes by extrusion blow moulding process. Starting in 1985 our group company Tubeflex manufactured the first successful corrugated pipes and tubes in India. Since then the group has maintained its position as a leader by developing a wide range of pipes, tubes and hoses for various industry segments like home appliances, automobile, electrical, chemical, environmental protection & pollution control, and medical. This critical experience in the last two decades has made us adept at developing corrugated flexible tubes for any application.

Some of the popular automobile industry applications are for wiring harnesses, overflow tubes, windscreen washing, air conveyance in engines and air-conditioning, ventilation of CNG - LPG gases, shock absorber bellows etc. These corrugated flexible tubes have opened up a wide range of application possibilities which include the obvious, ingenious and the inevitable to translate customer imagination into a solution .

Material Characteristics

Mechanical

	Units	PP	MOPP	Pa6	PE
Density	g/cm ³	0.90	0.90	1.13	0.92
Tensile at break	Mpa	26 ~ 30	19 ~ 23	35 ~ 70	25 ~ 28
Elongation at break	%	550 ~ 650	600 ~ 800	100 +	700 ~ 800
Impact on tubing at 23°C.	300 mm tube with wires 200 gms/1mtr	No Crack No Break	No Crack No Break	No Crack No Break	No Crack No Break

Subject to variations due to improvements and technological changes.

Material Characteristics

Mechanical

	Units	PP	MOPP	Pa6	PE
Impact on tubing at 40°C.	300 mm tube with wires 100 gms/1mtr	No Crack No Break	No Crack No Break	No Crack No Break	No Crack No Break
Bending of tubing at 23°C.	180° over a cylinder 20 X of the tube ID	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm
Bending of tubing at 40°C.	180° over a cylinder 20 X of the tube ID	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm	No Crack/Break Slit opening ≤1mm

Subject to variations due to improvements and technological changes.

Material Characteristics

Thermal

	Units	PP	MOPP	Pa6	PE
Temperature in continuous use	°C	- 40 + 100	- 40 + 135	- 40 + 125	- 40 + 60
Accelerated Ageing Temp. (240 h)	°C	+ 125	+ 155	+ 150	+ 75

Subject to variations due to improvements and technological changes.

Material Characteristics

Fire Resistance, Flame Retardancy, Self Extinguishing Property

	PP	MOPP	Pa6	PE
Non FR modified grade Burning rate ≤ 75 mm / min.	Conforms	Conforms	Conforms	Conforms
FR modified grade` To extinguish within 15 seconds	Conforms	Conforms	Conforms	Conforms

Subject to variations due to improvements and technological changes.

Material Characteristics

Chemical Resistance

	PP	MOPP	Pa6	PE
Resistance to automotive fluids	Good	Good	Good	Good

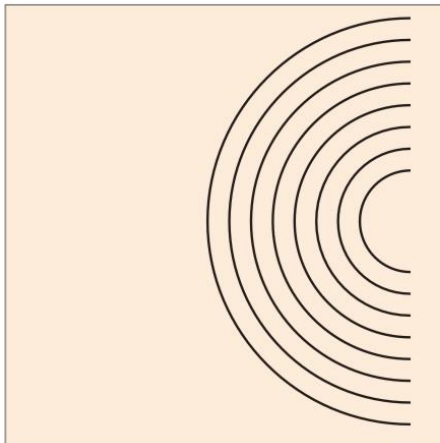
Resistance to UV

	PP	MOPP	Pa6	PE
Non UV modified grade	Moderate	Moderate	Moderate	Moderate
UV modified grade	Excellent	Excellent	Excellent	Excellent

Subject to variations due to improvements and technological changes.

Choice of Sizes

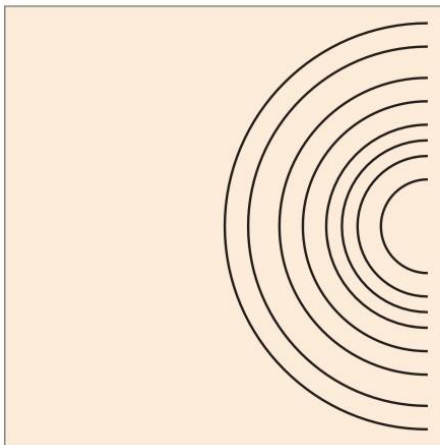
Japanese Standard



Nom. Dia.	I.D. (mm)	O.D. (mm)
7	07.4 ± 0.4	10.2 ± 0.4
10	10.7 ± 0.4	14.1 ± 0.4
13	13.2 ± 0.4	17.5 ± 0.4
15	15.2 ± 0.4	19.5 ± 0.4
19	19.5 ± 0.4	23.8 ± 0.4
22	22.1 ± 0.4	27.0 ± 0.4
25	25.1 ± 0.5	30.0 ± 0.5
28	28.2 ± 0.5	34.0 ± 0.5

Choice of Sizes

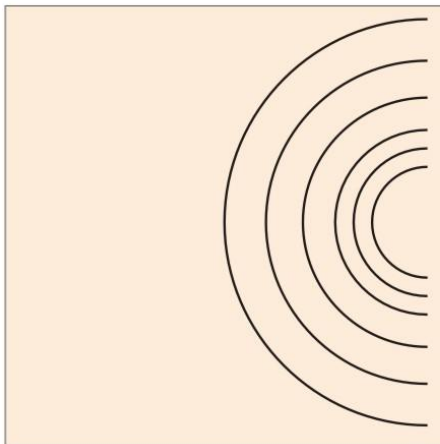
European Standard



Nom. Dia.	I.D. (mm)	O.D. (mm)
06	06.30 ± 0.30	09.65 ± 0.20
09	09.35 ± 0.35	13.40 ± 0.25
11	11.35 ± 0.35	16.55 ± 0.25
13	13.40 ± 0.40	18.55 ± 0.30
16	16.40 ± 0.40	21.50 ± 0.30
19	19.45 ± 0.45	24.15 ± 0.35
23	23.50 ± 0.50	28.75 ± 0.40
26	26.50 ± 0.50	31.80 ± 0.40

Choice of Sizes

Indian Standard



Nom. Dia.	I.D. (mm)	O.D. (mm)
12	12.0 ± 0.4	16 ± 0.4
16	16.0 ± 0.4	20 ± 0.4
20	20.0 ± 0.4	25 ± 0.4
27	27.0 ± 0.5	32 ± 0.5
35	35.0 ± 0.6	40 ± 0.6
44	44.0 ± 0.6	50 ± 0.6

Special Facilities

Cut Lengths

In addition to the continuous length in coil form, tubes can be supplied in cut lengths to suit customer requirements.

Cuffed Ends

Tubes can be supplied with cuffs at the ends to facilitate fitting over a spigot. These cuffs can be either formed or moulded.

Identification Line

A longitudinal identification line in the desired colour can be provided.

Split / Unsplit

Tubes can be provided in split or unsplit form. Split tubes are slitted longitudinally.

Special / Custom Tooling

Our stock tooling is based on international standards, popular and widely used applications and Dia/profile offering optimal balance between strength and flexibility. If our stock tooling is not suitable we welcome request for custom tooling, where all parameters like Dia., pitch, profile and wall thickness can be tailored to achieve desired performance.

Ordering

Japanese Standard European Standard Indian Standard	J E N	1 Ch
Nominal Dia. in mm Nominal Dia. in mm	07 12	2 Ch
Slitted Axially	SL	2 Ch
Flame Retardant Self Extinguishing	FR	2 Ch
Standard Polypropylene Modified Polypropylene Nylon 6 Polyethelene	SDPP MOPP PA06 SDPE	4 Ch
Black Grey	BK GY	2 Ch

Examples

Japanese Standard; 7 mm Nominal Diameter; Slitted Axially; Flame Retarded Self Extinguishing; Modified Polypropylene; Black Colour.

J 07 S L F R M O P P B K

European Standard; 11 mm Nominal Diameter; Slitted Axially; Standard Polypropylene; Black Colour.

E 1 1 S L S D P P B K

Indian Standard; 12 mm Nominal Diameter; Nylon 6; Grey Colour.

N 1 2 P A 0 6 G Y

Standard Packing

Japanese Standard

Nom. Dia. mm	F Box mtrs.	H Box mtrs.
7	2250	1000
10	1250	500
13	800	400
15	600	300
19	400	200
22	350	150
25	250	125
28	200	100

European Standard

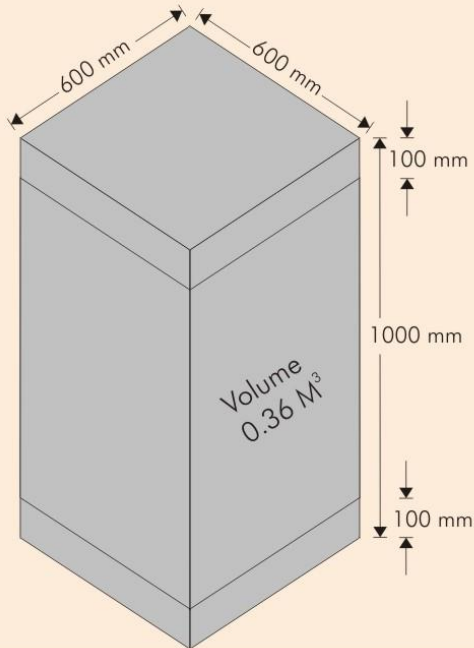
Nom. Dia. mm	F Box mtrs.	H Box mtrs.
6	2500	1000
9	1250	500
11	800	400
13	700	350
16	600	300
19	400	200
23	300	150
26	250	125

Indian Standard

Nom. Dia. mm	F Box mtrs.	H Box mtrs.
12	800	400
16	600	300
20	350	175
27	250	125
35	150	75
44	100	50

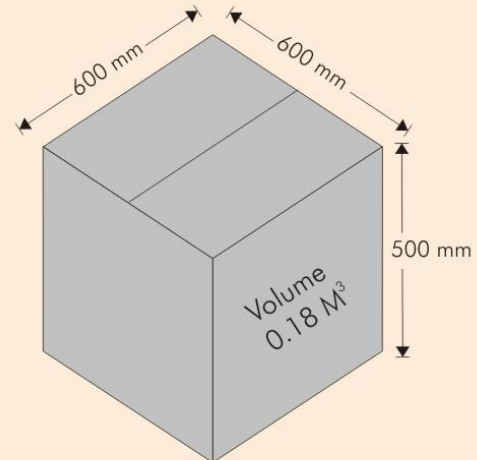
Packaging

Type 'F'



- Box in 3 parts
- Top Cap
 - Bottom Cap
 - Centre part
 - Five ply

Type 'H'



Box Label

Customer Name _____
Description _____
Customer Part No. _____
Quantity _____
Tubecraft Part No. _____
Invoice Reference _____

Bar Code
Content and Coding _____
As per customer
requirement

Tubecraft

ABC Automotive Ltd.
Corrugated Outer Tubes
9100045678
1000 mtrs
ABC001SLFRMOPPBK
Inv. No.103 Dt.24.01.03



Tubecraft