

FLEXIBLE HOSES FACTORY

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PROTECTIVE TUBES

Flexible metallic strip wound tubes are manufactured from a helically wound pre-formed strip, generally with right-hand lead where the turns, with or without packing, are connected together by single or double overlapping. The flexibility is obtained by sliding adjacent turns on each other.

There are three types of strip wound tubes distinguished by their principle of manufacture and sealing characteristic:

- leak proof tubes: suitable in applications for pressure (pressure tubes),
- tubes with limited leak proof: suitable in applications with low pressures and permissible leakage loss of fluid (extraction and exhaust tubes),
- non-leak proof tubes: suitable in applications without pressure (protective tubes).

MATERIAL:

Flexible metallic tubes usually in heavy-duty conditions. In comparison with rigid tubes, they have less thickness of wall and therefore shall have superior anti-corrosive. The ideal materials to be used in the manufacture of flexible metallic tubes must meet the following requirements:

- working ability by plastic deformation,
- good strength properties,
- optimum thermal stability,
- anti-corrosive properties,
- reliability in operation.

In principle, there is no material which will ideally meet all these demands. The materials, used for our range, cover a large variety of needs occurring in practice.

Flexible metallic strip wound tubes are in a standard manner made of the following materials:

- stainless steel AISI 304 W.Nr. 1.4301,
- galvanized steel

Metal flexible protective tubes type SAPA

Description:

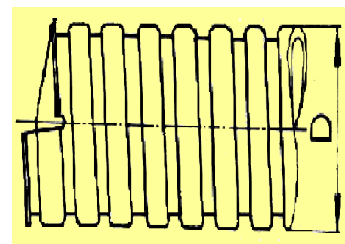
Flexible metal strip wound tubes or round cross section. For special application, the tubes can be made with polygonal cross section. To improve mechanical protection, the tubes can be braided by steel galvanized wire.

Material: - stainless steel AISI 304 W.Nr. 1.4301,
- galvanized steel

Diameters:

Tubes of industrial category DN 4 to DN 200.
Tubes of electrical category: Re7 to Re 48
Other diameters can be made on request.

Characteristics: Very flexible and light-weight. Suitable electrical cables, rubber, Teflon and other tubes.



Application: Industrial category: mechanical protection of rubber, Teflon tubes, electrical cables etc. **Electrical category:** flexible metallic tubes for protection of electrical cables.

Metal flexible protective tubes type SAPA				
diameter (mm)			Bending radius tol. ± 10%	mass tol. ± 10%
Nominal inside	Outside	Tol. for d and D		
DN=d (mm)	D (mm)	± mm	Rmin (mm)	kg/m
4	6	0,2	14	0,054
5	7	0,2	15	0,065
6	8	0,2	15	0,076
7	9	0,2	20	0,087
8	10,7	0,2	22	0,110
9	11,7	0,2	23	0,125
10	12,7	0,2	24	0,132
11	14,5	0,2	25	0,150
12	15,5	0,2	25	0,165
13	16,5	0,2	26	0,175
14	17,5	0,2	27	0,185
15	18,5	0,2	28	0,195
16	19,5	0,2	29	0,215
17	20,5	0,2	30	0,225
18	21,5	0,2	30	0,235
19	22,5	0,2	32	0,265
20	24,9	0,3	35	0,318
21	25,4	0,3	37	0,330
22	26,4	0,3	38	0,347
23	27,4	0,3	39	0,365
25	29,4	0,3	40	0,390
28	32,4	0,3	45	0,433
30	34,4	0,3	50	0,460
32	36,4	0,3	53	0,490
35	40,6	0,4	60	0,644
38	43,6	0,4	63	0,680
40	45,6	0,4	65	0,730
42	47,6	0,4	68	0,765
45	50,6	0,4	70	0,815
50	57	0,5	85	1,160
55	62	0,5	95	1,270
60	67	1,0	100	1,380
70	77	1,5	115	1,700
80	89,1	1,5	130	2,380
100	109,1	2,0	155	2,940
125	136,1	2,0	190	4,470
150	161,2	2,0	215	5,330
175	189	2,0	275	7,800
200	214	2,0	300	8,900



Metal flexible protective tubes type ELECPLAST

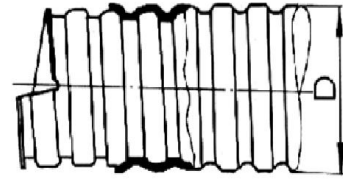
Description: Flexible metal strip wound interlocked tubes of round cross section, without seal covered by plastic sheathing (extruded).

Material: galvanized steel with plastic sheathing is made in black PVC (white and grey on request).

Diameters: Industrial category DN 4 to DN 32.
Electrical category: Re7 to Re 48

Characteristics: Very flexible and light weight, waterproof and temperature resistant from -25OC to +80 OC. Suitable for mechanical protection of electrical cables, rubber, Teflon and other tubes etc.

Application: Industrial category: Mechanical protection of rubber, Teflon tubes, electrical cables etc. Electrical category: Flexible metallic leak proof tubes for mechanical protection of electrical cables



Metal flexible protective tubes type ELECPLAST				
diameter (mm)			Bending radius tol. $\pm 10\%$	mass tol. $\pm 10\%$
Nominal inside	Outside	Tol. for d and D		
DN=d (mm)	D (mm)	\pm mm	Rmin (mm)	kg/m
8	11,3	0,2	28	0,124
9	12,3	0,2	30	0,137
10	14,0	0,2	32	0,175
12	16,1	0,3	36	0,204
13	17,3	0,3	38	0,222
14	18,3	0,3	40	0,233
15	19,3	0,3	41	0,245
16	20,3	0,3	43	0,259
17	21,3	0,3	45	0,273
18	22,3	0,3	47	0,285
19	23,3	0,3	49	0,298
20	25,2	0,4	50	0,358
21	26,4	0,4	51	0,376
22	27,4	0,4	56	0,395
23	28,4	0,4	57	0,415
25	30,4	0,4	58	0,444
28	33,4	0,4	63	0,491
30	35,4	0,4	68	0,522
32	37,4	0,4	70	0,580
35	40,4	0,4	75	0,630
38	43,4	0,4	80	0,700
40	45,6	0,4	85	0,840
45	50,6	0,4	100	1,000

