

# Convoluted PTFE hose assemblies



## CHEMICALS & PHARMACEUTICALS

Convoluted hose assemblies/Chemical and corrosive products



### APPLICATIONS

For transfer of extremely hot or cold fluids, aggressive and corrosive chemicals, in demanding environments.

### ADVANTAGES

- Resistant to almost any chemicals.
- Can work at very low (-70°C) up to very high (+260°C) temperatures, depending on the conveyed fluid.
- Very flexible and light weight, resistant to flexion.

### TECHNICAL DESCRIPTION

Inner tube: helically convoluted PTFE, white or black (antistatic), compliant with FDA 21 CFR 177.1550, USP Class VI requirements, and EU regulation 1935/2004.

Braid(s): high tensile 304 stainless steel or polypropylene. Other qualities, like PVDF, or finish, like EPDM or silicone coating, upon request.

Temperature range: -70°C to +260°C.

Diameter range: available from 1/4" (6mm) up to 6" (150mm).

Electrical properties:

White = Type M:  $R < 100\Omega$  between couplings with stainless steel braids.

Black = Type  $\Omega$ :  $1K\Omega < R < 100M\Omega$ .

### COUPLINGS/FITTINGS

Made to order with any types of fittings, stainless steel or PTFE coated, including flare through ends for flanges.





ID inch	ID mm	BENDING RADIUS mm	WORKING PRESSURE bar	BURSTING PRESSURE bar 20°C	VACUUM mbar 20°C	MAX LENGTH mm	WEIGHT gr/m
<b>1 steel high tensile braid</b>							
1/4"	6	12	35	170	744	20	122
3/8"	10	24	35	170	744	20	168
1/2"	13	29	60	250	887	20	197
5/8"	16	35	55	170	887	20	302
3/4"	20	59	60	290	887	20	372
1"	25	71	40	210	887	20	604
1 1/4"	32	94	40	210	887	20	723
1 1/2"	38	118	35	175	887	20	1062
2"	50	147	25	135	887	20	1282
2 1/2"	63	230	16	80	887	20	2140
3"	75	260	14	65	887	20	3310
4"	100	300	10	40	887	20	4050
5"	127	450	6	24	554	12	5500
6"	150	520	6	24	554	12	6000

<b>Polypropylene braid, max +90°C</b>							
1/2"	13	50	40	160	887	10	189
5/8"	16	65	30	120	887	10	259
3/4"	20	55	30	120	887	10	243
1"	25	85	30	120	887	10	345
1 1/4"	32	100	25	100	887	10	531
1 1/2"	38	120	22	88	887	10	607
2"	50	165	20	80	887	10	930
2 1/2"	63	230	16	64	887	10	1028
3"	75	260	14	50	887	10	1186
4"	100	300	10	40	887	10	2710

