FibreFlex®

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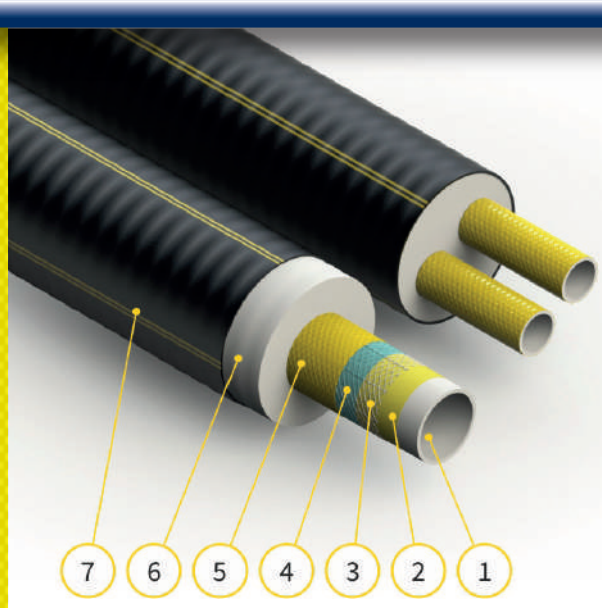
Factory-insulated, flexible plastic pipe system made of fibre-reinforced, cross-linked polyethylene and PUR thermal insulation.

The fiber mesh made of aramid makes it possible to reduce the thickness of the pipe wall and, due to the resulting smaller outer diameter, improves insulation.

Compared to conventional flexible plastic pipe systems, media can be transported at a pressure of 10 bar at a continuous operating temperature of +80°C.

Type	Dimension	Sheathing	max. Roll Legth	Weight /Meter	Bend radius
UNO/DS1	**[mm]**	**[mm]**	**[m]**	**kg**	**r in m**
25/76	25,0x2,2	76	570	1,10	0,70
32/76	32,0x2,5	76	570	1,10	0,70
40/91	40,0x2,8	91	570	1,90	0,90
50/111	47,6x3,6	111	410	2,00	0,90
63/126	58,5x4,0	126	300	2,40	1,00
75/142	69,5x4,6	142	220 (*440)	2,90	1,10
90/162	84,0x6,0	162	150 (*300)	4,00	1,20
110/162	101,0x6,5	162	150 (*300)	4,30	1,20
125/182	116,0x6,8	182	86 (*170)	5,10	1,30
140/202	127,0x7,1	202	80 (*160)	6,30	1,60
160/225	144,0x7,5	225	75 (*150)	7,70	1,60
UNO/DS2	**[mm]**	**[mm]**	**[m]**	**kg**	**r in m**
25/91	25,0x2,2	91	570	1,30	0,90
32/91	32,0x2,5	91	570	1,30	0,90
40/111	40,0x2,8	111	410	1,90	0,90
50/126	47,6x3,6	126	300	2,20	1,00
63/142	58,5x4,0	142	220 (*440)	2,70	1,10
75/162	69,5x4,6	162	150 (*300)	3,50	1,20
90/182	84,0x6,0	182	86 (*170)	4,70	1,30
110/182	101,0x6,5	182	86 (*170)	5,00	1,30
125/202	116,0x6,8	202	80 (*160)	6,00	1,40
140/225	127,0x7,1	225	75 (*150)	7,50	1,60
DUO/DS1	**[mm]**	**[mm]**	**[m]**	**kg**	**r in m**
25+25/91	2x25,0x2,2	91	570	1,40	0,70
32+32/111	2x32,0x2,5	111	410	1,90	0,90
40+40/126	2x40,0x2,8	126	300	2,60	0,90
50+50/162	2x47,6x3,6	162	150 (*300)	3,60	1,20
63+63/182	2x58,5x4,0	182	86 (*170)	4,50	1,30
75+75/202	2x69,5x4,6	202	80 (*160)	5,70	1,40
90+90/225	2x84,0x6,0	225	75 (*150)	7,30	1,60
DUO/DS2	**[mm]**	**[mm]**	**[m]**	**kg**	**r in m**
25+25/111	2x25,0x2,2	111	410	1,80	0,90
32+32/126	2x32,0x2,5	126	300	2,30	0,90
40+40/142	2x40,0x2,8	142	220 (*440)	2,90	1,00
50+50/182	2x47,6x3,6	182	86 (*170)	4,30	1,30
63+63/202	2x58,5x4,0	202	80 (*160)	5,30	1,40
75+75/225	2x69,5x4,6	225	75 (*150)	6,60	1,60

The maximum roll lengths given refer to the standard Maxi-Coil dimensions of HxW 2950x1200mm. Roll lengths for projects up to (*) possible. = (Height x Width) 2950x2400mm



1. PE-Xa Medium Pipe 2. Adhesion-promoting intermediate layer 3. Fiber braid of aramid 4. Adhesion-promoting intermediate layer incl. oxygen diffusion barrier 5. Medium tube outer layer 6. Polyurethane foam (PUR) 7. Sheathing

Technical Data:

Max. Contious-temperatur:	+80°C
Max. Operating Temperature:	+95°C (sliding)
Thermal conductivity:	0,021 W/mK
Working Pressure:	10 bar
Medium Pipe	Cross-linked polyethylene (PE-Xa), reinforced with aramid fibers
Thermal Insulation	polyurethane (PUR), CFC-free
Jacket Pipe:	corrugated PE LLD, seamlessly extruded

FibreFlex pipe systems can be designed for a service life of up to 50 years in accordance with EN 15632-2.

Different temp/time profiles are applicable according to ISO 13760 (Miner's rule).

Such as:
29 years at 80°C + 1 year at 90°C + 100h at 95°C or
Winter heating period 85°C + summer heating period 70°C

The maximum operating temperature must not exceed 95°C.