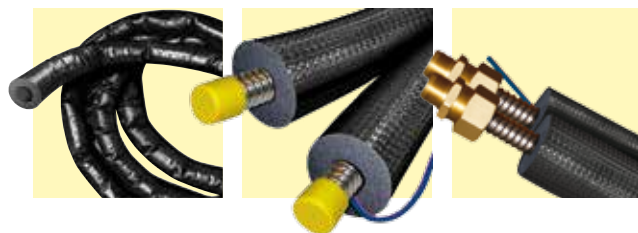


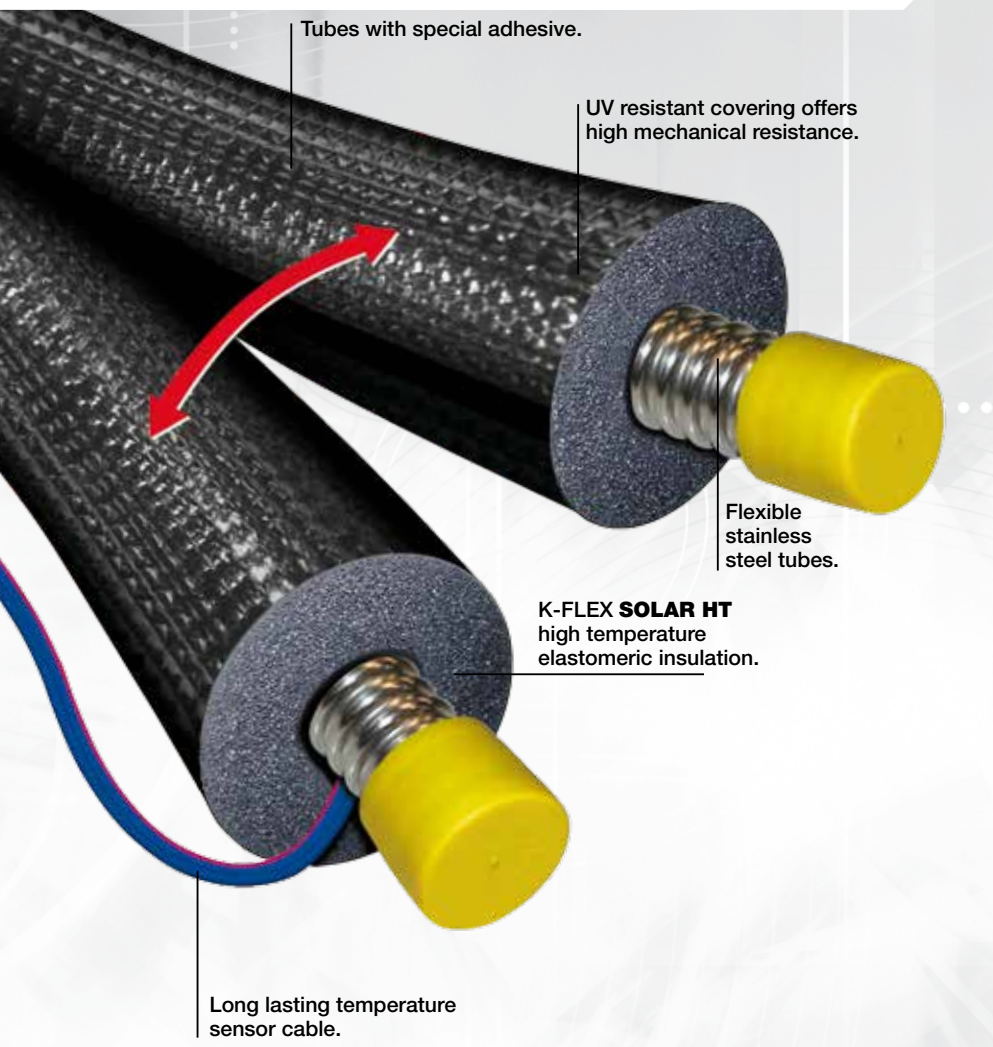
K-FLEX SOLAR R
K-FLEX TWIN SOLAR SYSTEM SPIRAL
K-FLEX TWIN SOLAR SYSTEM



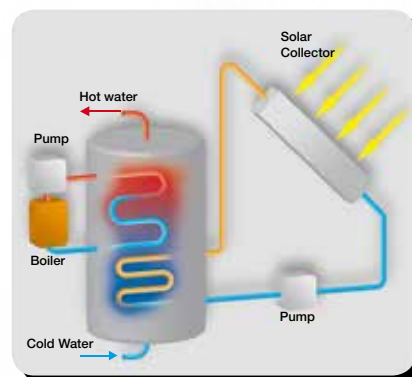
Solar System

products & accessories





- ■ ■ The ideal solution for solar heating systems complete with thermal insulation resistant to high temperatures.
- ■ ■ Fast & easy connection of the hot water accumulation tank to the solar panel.
- ■ ■ Specifically designed to minimize heat loss, and ensure resistance to chemicals and atmospheric agents.



Application:



K-FLEX TWIN SOLAR SYSTEM

CHARACTERISTICS:

- Specifically designed for solar thermal panels.
- UV resistant.
- Saving on installation time.
- Meets all safety requirements.



K-FLEX TWIN SOLAR SYSTEM the complete system with:

- > Stainless Steel tubes.
- > K-FLEX SOLAR HT insulation.
- > High mechanical resistant protective film.
- > Complete range of fittings.
- > Range of accessories.



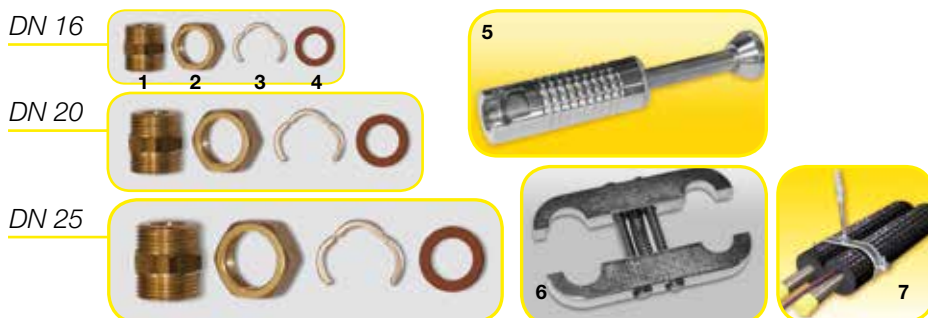
K-FLEX TWIN SOLAR SYSTEM

Range

K-FLEX TWIN SOLAR SYSTEM WITH STEEL TUBES

Range	Steel Tubes		Insulation	Tube Length				
	Description	O.D. (mm)		Wall Thickness (mm)	Thickness (mm)	10 m	15 m	20 m
K-FLEX TWIN SOLAR SYSTEM DN 16		21,3 ±0,3	0,18	14	●	●	●	●
K-FLEX TWIN SOLAR SYSTEM DN 16		21,3 ±0,3	0,18	20	●	●	●	●
K-FLEX TWIN SOLAR SYSTEM DN 20		26,5 ±0,3	0,18	14	●	●	●	●
K-FLEX TWIN SOLAR SYSTEM DN 20		26,5 ±0,3	0,18	20	●	●	●	●
K-FLEX TWIN SOLAR SYSTEM DN 25		31,9 ±0,3	0,20	14		●	●	●
K-FLEX TWIN SOLAR SYSTEM DN 25		31,9 ±0,3	0,20	20		●	●	●

Accessories for traditional flared installation



Assembling tools

- 1- Nipple
- 2- Nut
- 3- Split ring
- 4- Gasket
- 5- Flange Tool
- 6- Tube clamp
- 7- Oval Pipe support

Compression Quick Coupling



> Quick assembly without the need for tools or special equipment. Simple metal to metal seal.

> Meets safety requirements and enhances performance by eradicating assembly mistakes.



K-FLEX TWIN SOLAR SYSTEM compression quick coupling assembly



■ ■ ■ The convenient **solution** for solar panels and industrial processes.

■ ■ ■ **Recommended** for solar panels and and low pressure steam or industrial process.

■ ■ ■ **K-FLEX SOLAR R** is available in rolls, standard cartons, and half cartons.

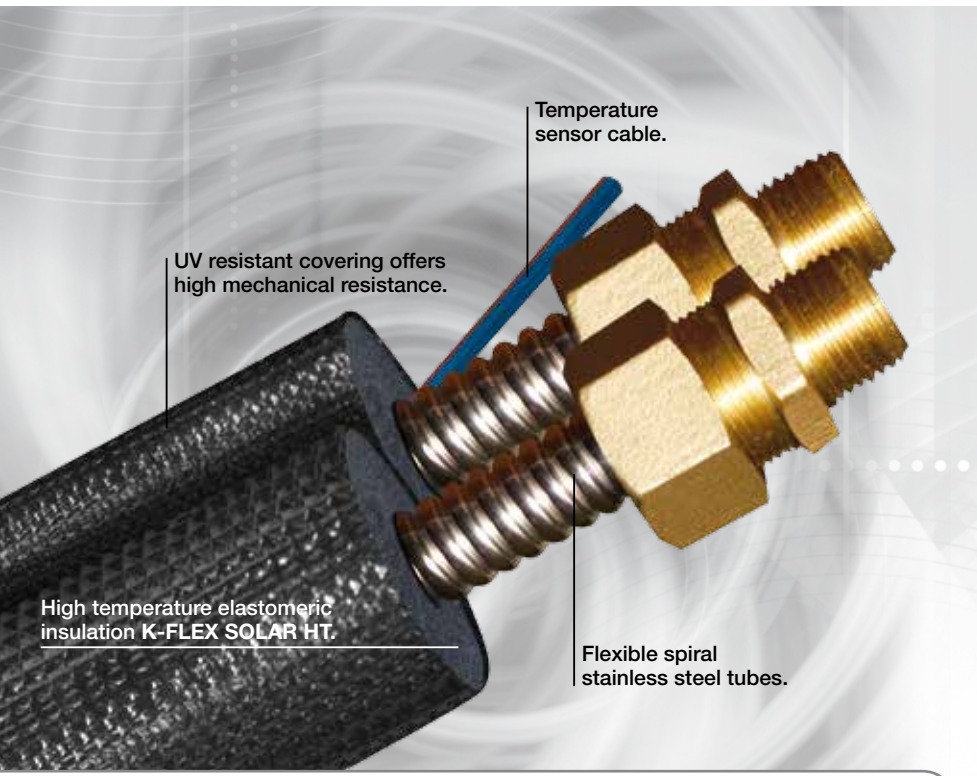


Application:



K-FLEX SOLAR R

Range	Insulation Thickness	Tube Diameter						length (m)
		12 mm	15 mm	18 mm	22 mm	28 mm	35 mm	
Description								
K-FLEX SOLAR R - Rolls -	14			●	●	●	●	
K-FLEX SOLAR R - Rolls -	20	●	●	●	●	●	●	
K-FLEX SOLAR R - Standard Carton -	14			●	●	●	●	2
K-FLEX SOLAR R - Standard Carton -	20	●	●	●	●	●	●	2
K-FLEX SOLAR R - Half Carton -	14				●	●	●	2
K-FLEX SOLAR R - Half Carton -	20	●	●	●	●	●	●	2



- ■ ■ Spiral stainless steel tube, 0.30 mm thick, with its special coupling offers high functionality.
- ■ ■ The steel is heat-treated to give the product a greater malleability.
- ■ ■ The spiral shape decreases the pressure drop inside the tube as shown by the data in the table below.

Complete range of insulation products
 Fast & easy installation
 UV Resistant
 Minimises heat loss

Application:
 specifically designed for solar thermal panels

P R E S S U R E D R O P V A L U E S

DN 15		DN 20		DN 25	
Pressure Drop per unit length	Flux	Pressure Drop per unit length	Flux	Pressure Drop per unit length	Flux
(mbar/m)	(l/min)	(mbar/m)	(l/min)	(mbar/m)	(l/min)
1,305	2,089	2,039	5,490	1,159	9,590
2,174	2,468	2,781	6,668	1,947	11,966
3,088	2,962	3,801	7,767	2,874	13,961
4,262	3,287	4,959	9,050	3,986	16,240
5,654	3,690	6,350	10,192	5,191	18,351
7,219	4,086	7,972	11,264	6,628	20,551
8,828	4,444	9,641	12,539	8,343	22,733
10,742	4,765	11,587	13,669	10,104	25,328
12,786	5,160	13,719	14,630	11,958	27,096
15,004	5,513	15,898	16,043	14,090	29,254
17,352	5,929	18,539	16,595	16,407	31,871
19,918	6,453	21,000	18,087	18,818	34,618
22,528	6,802	23,730	19,094	21,413	33,661
25,485	7,101	26,789	20,443	24,305	38,553
28,529	7,394	29,848	21,403	27,207	40,990
31,747	7,983	32,444	23,016	30,358	42,833
34,792	8,412	36,152	24,497	33,834	45,050

Application:

K-FLEX TWIN SOLAR SYSTEM SPIRAL

Range

STEEL TUBES			INSULATION Thickness (mm)	TUBE LENGTH		
DN	O.D. (mm)	Thickness (mm)		15 m	20 m	25 m
15	18,44 ÷ 18,69	0,3	14	●	●	●
15	18,44 ÷ 18,69	0,3	20	●	●	●
15	18,44 ÷ 18,69	0,3	25	●	●	●
20	25,33 ÷ 25,58	0,3	14	●	●	●
20	25,33 ÷ 25,58	0,3	20	●	●	●
20	25,33 ÷ 25,58	0,3	25	●	●	●
25	32,50 ÷ 32,80	0,3	14	●	●	●
25	32,50 ÷ 32,80	0,3	20	●	●	●
25	32,50 ÷ 32,80	0,3	25	●	●	●

Accessories



Packaging



TECHNICAL DATA

Technical data for **K-FLEX SOLAR HT** thermal insulation with its special protective film ensuring excellent resistance to mechanical impacts and UV.

Technical features for the following products: **K-FLEX TWIN SOLAR SYSTEM**
K-FLEX SOLAR R
K-FLEX TWIN SOLAR SPIRAL

FLEXIBLE ELASTOMERIC FOAM

	Temperature range	from -50° C to + 150 °C
	Thermal conductivity λ W/(m·K) ENISO 8497 (DIN 52613) - EN 12667 (DIN 52612)	20° C 0,040 W/(m·K) 40° C 0,042 W/(m·K) 60° C 0,045 W/(m·K)
	Fire Behaviour	DIN 4102 - B2
	Ecological Data	No CFC, HCFC - No formaldehyde
	UV Resistance	Good, according to EN 13859-1

ANNULAR FLEXIBLE STAINLESS STEEL TUBE

	Material	AISI 316 L			
	Ø (mm)	DN	Thickness (mm)	Max service pressure (bar)	Bend radius (mm)
	21,3 ±0,3	16	0,18	16	25
	26,5 ±0,3	20	0,18	10	30
	31,9 ±0,3	25	0,20	10	35

SPIRAL FLEXIBLE STAINLESS STEEL TUBE

	Material	AISI 316 L			
	Ø (mm)	DN	Thickness (mm)	Max service pressure (bar)	Bend radius (mm)
	18,44 ÷ 18,69	15	0,3	15	30
	25,33 ÷ 25,58	20	0,3	13	40
	32,50 ÷ 32,80	25	0,3	12	50

TEMPERATURE SENSOR WIRE

	Temperature Range	from -60 °C to +200 °C
	Flexible Copper Ø 1 mm	CEI 20 - 19/15
	Wire Insulation	Silicon Rubber
	Rated Voltage	300/500 V
	Electrical Resistance	20.0 Ohm/km



K-FLEX SOLAR SYSTEM

A NEW GENERATION OF INSULATION MATERIALS

Solar Future by QUALITY INSULATION



TWIN SOLAR SYSTEM



TWIN SOLAR SYSTEM SPIRAL



SOLAR R



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Via Leonardo da Vinci, 36 - 20877 Roncello (MB) - Italy
tel. +39 039.6824.1 - fax: +39 039.6824560
international@isolante.com