

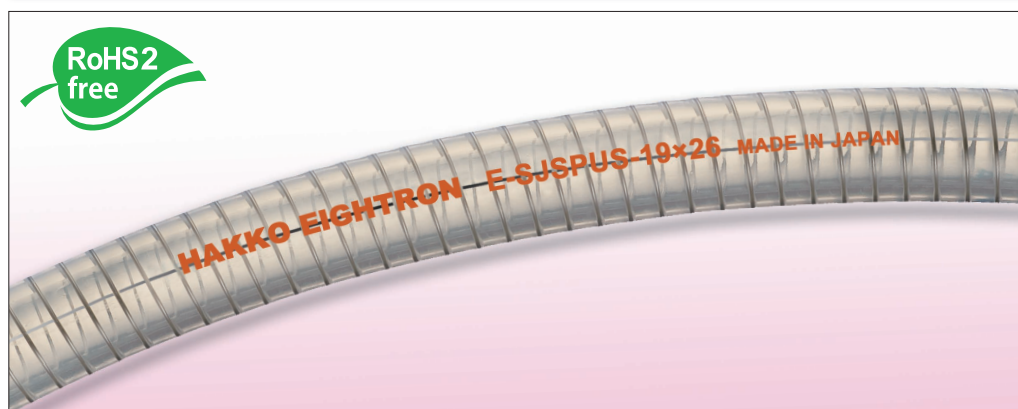
Multi-Purpose/Chemical Resistant Hose

E-SJSPUS is about 2.2 times as flexible as E-SJSP. E-SJSPUS is a premium hose with greater flexibility and chemical resistance.

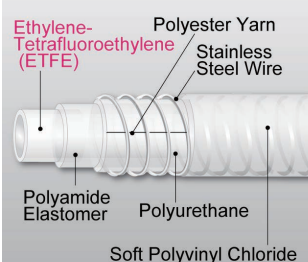
Flexible Fluorine (ETFE) Resin SUS Spring Wire Hose (Ultra Soft Type)

[Model Number: E-SJSPUS-(I.D.)]

Applications • Fluids

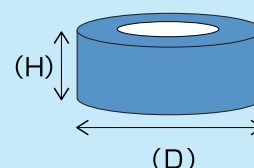


[Materials / Structure]



- For Transferring Organic Solvents of the Painting Equipment and Paints
- For Transferring Chemicals used in Laboratory Equipment
- For Transferring Chemicals used in Semiconductor-Related Devices and Flat-Panel Display (FPD) Manufacturing Devices
- For Transferring Beverage and Food
- For Transferring Fatty Acid Ester such as Biofuel (BDF)
- For Transferring Chemical and Industrial Wastes
- For Transferring Alcohol, Cosmetics, and Chemicals
- For Transferring Chemicals used in Medical Equipment, Endoscope, and so on
- For Transferring Chemicals used in Manufacturing Fuel Cell and Pure Water
- For Filling Line of Paints and Adhesives
- For Filling Line of Fragrance, Colorant, and Additive
- For Transferring Screw, Metal Powder, and Solids

[Packing Dimension]



Standard • Packing Information

Model Number	Inch (Inside Diameter) (*1)	I.D. × O.D.	Working Pressure MPa		Minimum Bend Radius at 20℃	Temperature Range	Standard Length	Product Weight	Color	Packing Dimension(*2)			
			mm	at 20℃						at 70℃	mm	℃	m
		cm		cm	kg/roll								
E-SJSPUS-19	3/4	19 × 26	−0.1 ~ 0.4	−0.1 ~ 0.2	135	− 5 ~ 70	20	6.78	Clear	Cardboard Box	52	17	7.98
E-SJSPUS-25	1	25 × 33			175			10.83			64	21	12.53
E-SJSPUS-32	1 1/4	32 × 41	−0.1 ~ 0.3	−0.1 ~ 0.15	225			14.30			83	24	17.33
E-SJSPUS-38	1 1/2	38 × 48			265			18.80					21.53

*1: Please note that inch size is approximate, which is not equal to milliunit.

*2: "Diameter (D)" × "Height (H)" means "External Dimensions of Cardboard Box (D)" × "Height (H)."

Characteristics and Functions

Non-Adhesiveness

Vacuum

Chemical Resistance

Solvent Resistance

Low Elution

Low Odor

Food Sanitation

Transparency

Oil-Proof

Hard to Break

Alcohol Resistant

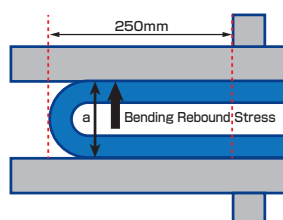
Cold Resistance

- **Softness and Flexibility**...E-SJSPUS is about 2.2 times as soft and flexible as E-SJSP. This improves your work efficiency.
※ Please note that the value is the test value, which is not guaranteed.
- **Chemical Resistance**...Since the inner layer is made of ETFE fluorine resin, E-SJSPUS is resistant to most of the chemical substances. For more information on chemical resistance data, please refer to our corporate website.
- **Bending**...Rust-proof SUS Steel Wire makes it difficult to be crushed or kinked, leading to high stability in its shape.
- **Vacuum**...E-SJSPUS stands proof against negative pressure (can be used in vacuum condition).
- **Non-Adhesiveness**...Since fluorine resin is superior in water-proof and non-adhesiveness, you can wash out the fluids very easily.
- **Abrasion Resistance**...Fluorine resin (inner layer) shows higher levels of abrasion resistance. Thus, you can transfer chemical slurry.
- **High Purity**...Fluorine resin does not contain any additives such as plasticizer, so E-SJSPUS is suitable for transferring high purity chemical fluids.
- **Easy to Cut**...Since we print the cut mark on the hose every meter, it is easy to cut the length you would like to
- **High Transparency**...You can check the fluid very easily.
- **Original Fittings**...By using our original fittings, you can avoid accidents which are caused by incorrect choices of hose and fittings.
- **Green Procurement**...E-SJSPUS is compliant with RoHS2 requirements (directive 2011/65/EU:RoHS2). (RoHS 2 free products mean that they do not contain or below the threshold of 10 substances.)
- **Food Sanitation Law Certified**...E-SJSPUS conforms to the Food Sanitation Standard No.370 (The Ministry of Health and Welfare for Food Sanitation, No.370, 1959). (Conformity to N-Heptane). Please contact us regarding the conformity of "Partial Revision of the Food Sanitation Law" (Effective on June 1, 2020) and Positive List System (PL).

Technical Information



(Flexibility Test)



Measuring Bending Stress

- The bending stress test is the elastic force, measured when the hose is bent into a U-shape (as shown in the above photograph).
- "a" = Distance : 200mm

Test Sample	Bending Stress (N/200mm)
E-SJSPUS-25	32.1
E-SJSP-25 (Conventional Product)	71.0

Test Result

The elastic force of E-SJSPUS-25 is about 55% lower than that of E-SJSP-25.

※ This indicates that E-SJSPUS-25 is superior to E-SJSP-25 regarding impact resilience. E-SJSPUS-25 is much softer and more flexible than E-SJSP-25.

※ Please note that this test data is the test values and is not guaranteed values.

HAKKO Original Fittings

Model	Features
EIGHTLOCK FERRULE (E-ELF)	<ul style="list-style-type: none"> • Material : Body: SCS16, Nut and Ring: SCS13 (Sleeve: POM) • You can replace a hose even though the hose needs replacement, since EIGHTLOCK Ferrule Fitting is a nut ferrule fitting. You can install and detach the fitting on site. • You can make use of a wide range of usages such as pipes for chemicals, food, beverage, and alcohol. • The nipple end is less likely to accumulate fluids, so you do not have to worry about contamination very much.
EIGHTLOCK S (E-ELS)	<ul style="list-style-type: none"> • Material : SUS304 • Our Nut Type Original Fittings • Since the inner layer of the fitting is flat and does not use the rubber packing, fluid accumulation is unlikely to occur. Thus, it is easy to wash out. • Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting.
EIGHTLOCK B (E-ELB)	<ul style="list-style-type: none"> • Material : BSBM • Our Nut Type Original Fittings • Since the inner layer of the fitting is flat and does not use the rubber packing, fluid accumulation is unlikely to occur. Thus, it is easy to wash out. • Since you do not need hose clamp and the controlling torque value, you can standardize how to install the fitting.

Model	Features
EIGHTNIPPLE S (E-FTS)	<ul style="list-style-type: none"> • Material : SUS316L • SUS 316L is superior in corrosion resistance, so you can transfer a wide range of fluids. • Two-stage flat nipple structure which maximizes hose pressure • Our Original Barb Nipple Fittings
EIGHTNIPPLE B (E-FTB)	<ul style="list-style-type: none"> • Material : BSBM • Compliant with RoHS2 requirement • Two-stage flat nipple structure which maximizes hose pressure • Our Original Barb Nipple Fittings
Protective Spring Guards (E-HSL)	<ul style="list-style-type: none"> • Material : SUS304 (Band, Spring, Fastener) • Spring guards prevent kinking, so you can transfer fluids safely. • Prevent kinking even if the bending radius is small due to the space-saving piping. • As a protection accessory for cleaning hose if its hose is easy to break at hand.

*For EIGHTNIPPLE, please fasten with two clamps.



*Please use the joints to seal an inner surface of the hose.

*Please do not use the joints to seal an outer surface of the hose. This may result in the bursting or coming off from the hose.

*When you use our products, please refer to "Precautions for Use" available on our webpage and product catalog.

*In terms of chemical resistance, please refer to "Chemical Resistance Data" available on our webpage and product catalog.

*Although the inner layer is made of fluorine, please make sure whether or not E-SJSPUS is usable for high purity fluids before you use.

*Although the inner layer is resistance to fluids, but depending on working environments, the fluids would be permeated through the inner layer, resulting in the danger of swelling and degradation of the middle or outer layer.

Contact us if you have any inquiries about HAKKO products.

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HAKKO CORPORATION

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