

Multi-Purpose/Chemical Resistant Hose

Single-layer teflon tubing is hard and easy to break. Our Flexible Fluorine (ETFE) Resin Tubing is an alternative tubing for a teflon tubing.

Flexible Fluorine (ETFE) Resin Tubing Clear Blue

(Model Number : E-SJ-(I.D.)x(O.D.)-CBU)

Applications • Fluids













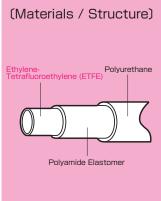












- For Industrial Ink-Jet Printers (For Ink-Supplying Pipes)
- For Transferring Paints, Solvents, and Adhesives
- For Transferring Chemicals used in Laboratory Equipment
- For Transferring Chemicals used in Semiconductor-Related Devices and Flat-Panel Display Manufacturing Devices
- For Transferring Beverage 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 Air Supplying Pipes at Clean Room

Standard • Packing Information

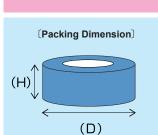
	Inch		Working	Pressure	Minimum	Temperature	Standard	Product		Packing Dimension(*2)			*2)			
Model Number	(Inside Diamater)	I.D. × O.D.	MPa		Bend Radius at 20℃	Range	Length	Weight	Color	Packing	Diameter (D)	Height (H)	Weight/roll			
	(*1)	mm	at 20℃	at 80℃	mm	°C m kg/rol		kg/roll		, acimig	cm	cm	kg/roll			
E-SJ-2×4-CBU	5/64	2×4			15		20	0.24		Plastic Bag	23.5	5	0.24			
E-5J-2×4-UBU	5/64	2.4			10		100	1.19		Cardboard Box	38.5	15	1.71			
E-SJ-3×5-CBU	1/8	3×5	0~0.6		20		20	0.32		Plastic Bag	25.5	5	0.32			
E-30-3 \ 5-0BU	1/0	3 ^ 5	0~0.6		20		100	1.60		Cardboard Box	38.5	15	2.12			
E-SJ-4×6-CBU	5/32	4×6			25		20	0.40		Plastic Bag	26	5	0.40			
E-5J-4×6-CBU	5/32	4 ^ 0		0~0.2		_ 20 ~. 90	_ 20 2. 90	- 20 ~ 80	100	2.00	Clear	Cardboard Box	38.5	15	2.52	
E-SJ-6×8-CBU	1/4	6×8	0~0.4	0~0.2	F0	20~80	20	0.56	Blue	Plastic Bag	30	5.5	0.56			
E-30-0 \ 0-0 BU	1/4	0 ^ 0	0~0.4		50	50	100	2.82		Paper Bobbin	38.5	15	3.74			
E C L C V O C DI L	1/4	6×9			35		20	0.88		Plastic Bag	33	5.5	0.88			
E-SJ-6×9-CBU	1/4	0 / 9	0~0.6		35		100	4.38		Paper Bobbin	38.5	15	5.30			
E C L O V 10 CDLL	F/10	0 × 10	0.6	F0		20	1.54		Plastic Bag	35.5	8	1.54				
E-SJ-8×12-CBU	5/16	8 × 12			50		100	7.69		Paper Bobbin	46	16	8.86			

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

^{*2: &}quot;Diameter (D)" × "Height (H)" means "External Dimensions of Cardboard Box (D)" × "Height (H)."



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Characteristics and Functions













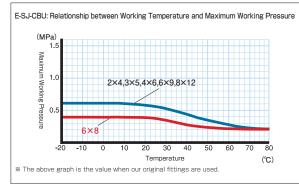


- •Chemical Resistance···Since the inner layer is made of ETFE fluorine resin, E-SJ-CBU is resistant to most of the chemical substances. For more information, on chemical resistance data, please refer to our corporate website.
- ·Flexibility···Due to the laminated structure, compared with the conventional single-layer fluorine tubing, E-SJ-CBU is superior in flexibility. This improves your work efficiency.
- ·Hard to Break···Unlike the conventional single-layer fluorine tubing, E-SJ-CBU is hard to break. (Even if it breaks, you can restore its shape to some extent.)
- •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.
- ·Plasticizer-Free···E-SJ-CBU does not contain plasticizer (an elution material) at all. E-SJ-CBU is an oil-free tubing
- ·Non-PVC···E-SJ-CBU is made of a non-PVC material.
- ·Low Elution and Low Odor···Since this tubing contains very low levels of elution and odor, it is recommended for use in transfers of food, beverage, and cosmetics.
- ·High Purity···Fluorine resin does not contain any additives such as plasticizer, so this tubing is suitable for transferring high purity chemical fluids.
- •Easy to Cut...Since we print the cut mark on the tubing every meter, it is easy to cut the length you would like to.
- •Transparency···E-SJ-CBU enables you to check the fluid very easily.
- •Green Procurement···E-SJ-CBU is compliant with RoHS2 requirements.
- •Original Fittings···By using our original fittings, you can avoid accidents which are caused by incorrect choices of hose and fittings. •Food Sanitation Standard Complied···E-SJ-CBU conforms to the Food Sanitation Standard No.370 (The Ministry of Health and

(Test Temperature:20°C)

Welfare for Food Sanitation, No.370, 1959). (Conformity to N-Heptane).

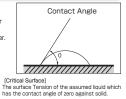
Technical Information



Non-Adhesiveness Comparison Data

You can check the data about critical surface tension and contact angle against water

	Resins	Critical Surface Tension (dyne/cm)	Contact Angle for Water (θ)			
	Ethylene-Tetrafluoroethylene (ETFE)	22	96			
	Polyvinylidene Fluoride (PVDF)	25	82			
	High Density Polyethylene	31	73			
Hard Vinyl Chloride PET		39	68			
		43				
	Nylon	46	54			



ashing out the inks (by organic solvents) sticked inside the hose sst Piece 1: Inner Layer. NylonSolvent Transfer Hose (E-SV) sst Piece 2: Inner Layer. Ethylene-TetrafluoroethyleneFlexible Fluorine TFE) Resin Yam Reinforced Hose (E-SJB)								
	Kind of Ink	Solvent-Based Inks	Н					
Test Conditions	Ink Inclusion Period	7 Days (at Room Temperature)						
	Cleaning Solution Ethyl Acetate		Н					
Washing Methods	Cleaning Period	20 Seconds	F					
Modriodo	Pressure	Less than 0.01MPa	la					



dhesiveness of the inner layer, so you can reduce washing time and save cleaning solutions and labor costs

(Flexibility Comparative Data)

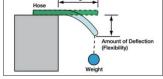
- This is one indication of flexibility. Flexibility varies depending on hose (tubing).
- The larger the amount of deflection is, the more flexible the hose (tubing)
- The lower the minimum bend radius value is, the harder the hose (tubing)

Test Sample	Minimum Bend Radius (mm)	Amount of Deflection (mm)			
① E-PD-4 × 6	23 (Catalog Value : 25)	28			
② E-SJ-4 × 6	23 (Catalog Value : 25)	31			
③ PTFE Tubing (4 × 6)	20	7			
4 PFATubing (4 × 6)	23	6			

Test Method for Amount of Deflection (Flexibllity)

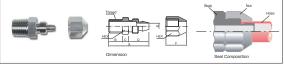
Add a 50 gram weight to the end Add a 5U gram weight to the end of the tubing for one minute. Then, measure the amount of deflection. (The test piece goes through the annealing step in advance to make it straight.)

*(3) PTFE Tubing and (4) PFA Tubing are not our products



HAKKO Original Fittings

Model Number	Body							Nut		Weight	Applicable	
Model Number	А	В	С	D	Е	Thread	HEX	F	HEX	Gram/Piece	Hose	
E-FTS-2 × 4-R1/8	24.5	10	4	10.5	1.7	R1/8	10	10.5	10	16	E-SJ-2 × 4-CBU	
E-FTS-3 × 5-R1/4	30	12	5	13	2.5	R1/4	14	13	12	29	E-SJ-3 × 5-CBU	
E-FTS-4 × 6-R1/4	31	12	5	14	3.5	R1/4	14	14	14	33	E-SJ-4 × 6-CBU	
E-FTS-6 × 8-R1/4	33	12	5	16	5.5	R1/4	17	16	14	30	E-SJ-6 × 8-CBU	
E-FTS-6 × 9-R1/4	35.5	12	5	18.5	5.5	R1/4	17	18.5	17	44	E-SJ-6 × 9-CBU	
E-FTS-8 × 12-R3/8	41	13	7	21	7	R3/8	19	21	19	63	E-SJ-8 × 12-CBU	



Material: 316 L Steel Use Stainless (Body) and 304 Steel Use Stainless (Nut)



- *Due to the laminated structure tubing, 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-SJ-CBU 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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