

# Flexible tube for Solar Thermal System (Model-010)

## Flexible tube for Solar Thermal System (Model-010)

Our helical corrugated tube for Solar Thermal system is approved by UL(USA), RWTUV(Germany), NET(New Excellent Technology in Korea) & KS(Korea Standard), which means product quality is approved with reliability.

Supplied Endless or Roll Drum type length from 25m to 300m

It is used as plumbing material for Solar hot water collector system in 3 different usage such as for heat-collecting pipe(black nickel plated tube) in the collector, water sending & returning tube between collector and hot water storage tank and Stainless steel corrugated heat exchanger coil in the hot water storage tank. Assembly at site is very simple and we've developed superb heat-resistance(350°C) thread-assembly type fitting which is world-first product.



### Distinction of product

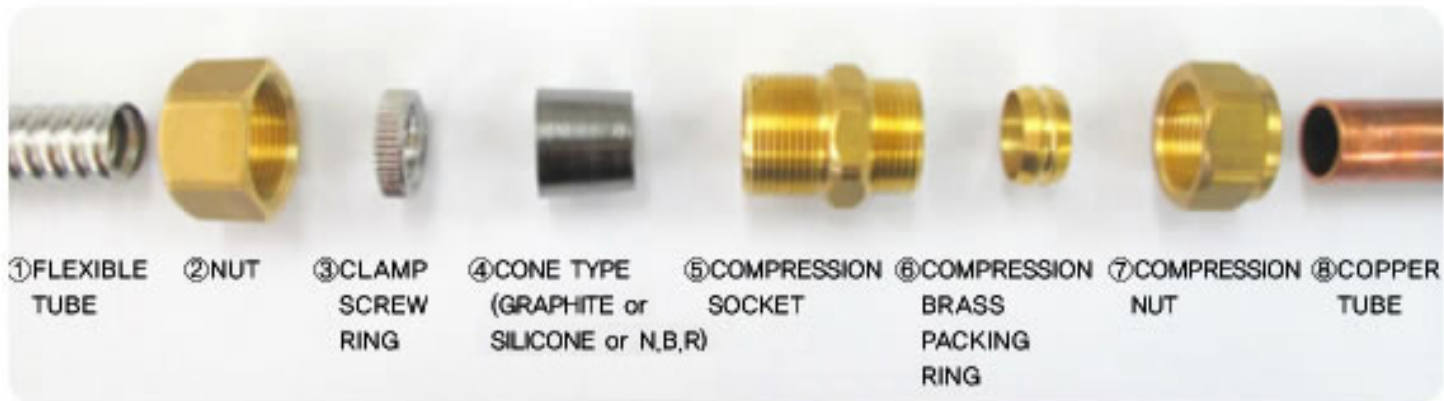
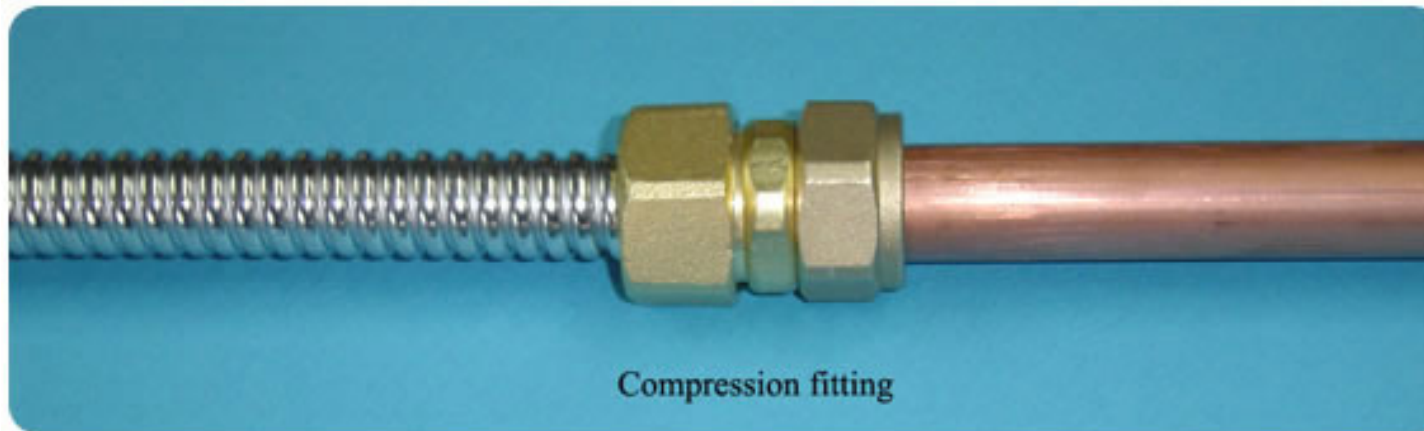
- **First** : No leakage occurs even in 50,000 times of repetition test of heating(200°C) & cooling(-30°C).
- **Second** : Stainless steel 316L that is corrosion resistant against Anti freezing solution (Calcium chloride, Sodium chloride) is used to prevent corrosion.
- **Third** : Helical type corrugation tube does not generate any vibration or noise of the tube.
- **Forth** : Assembly is more convenient than Copper tube(no welding work needed) and the price is about 40% cheaper than Copper tube.
- **Fifth** : Thickness of Copper tube, heat-exchange coil inside of heat-storage tank, is 0.8mm while stainless steel corrugation tube thickness is 0.3mm. Heat-exchange surface of stainless steel corrugation tube is about 40% larger than Copper tube, which lead 33% reduction of heat-exchange coil length

In case of steel thermal tank, both ends of heat exchanger coil are brazing-welded to male or female nipple which is to be connected by welding to the tank. In case of synthetic resin tank (plastic tank), both ends of heat exchanger coil are brazing-welded to male or female nipple which is to be connected by screw fitting system to the tank. (Regarding these connecting methods, please refer to model 006).

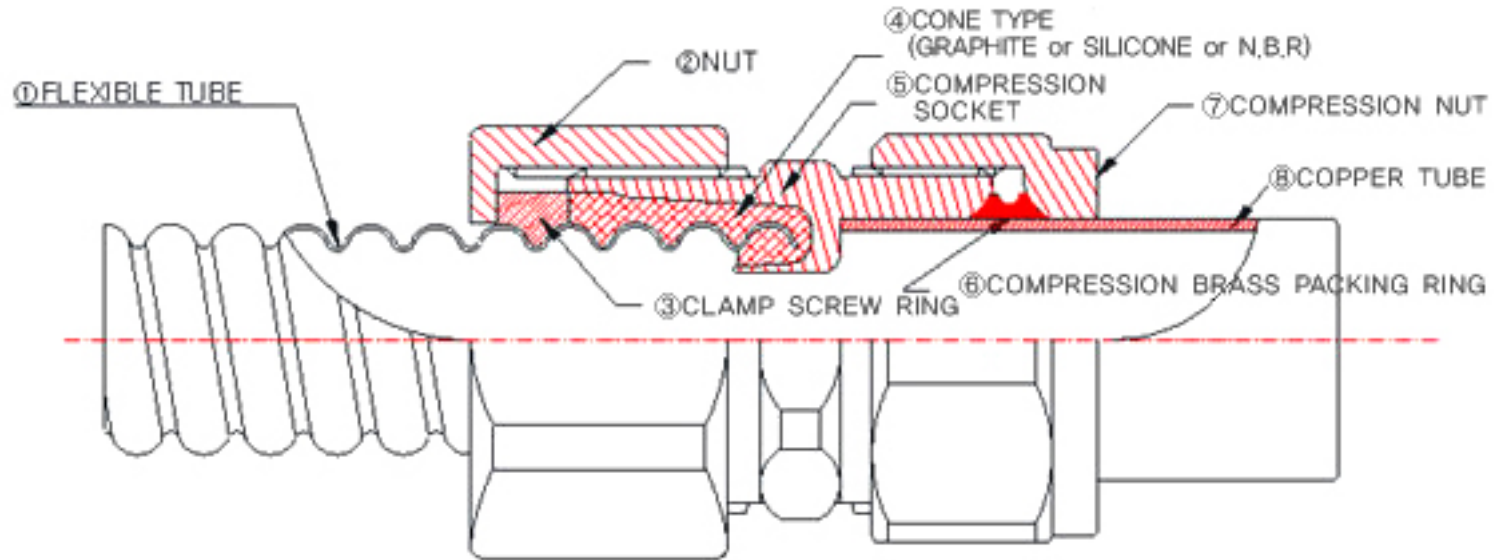
And please refer to model 003 & 006 for solar thermal system and helical corrugated tube's sizes and fittings.

## Compression Fitting (Fitting for connection between Corrugation tube and Copper tube)

· Component

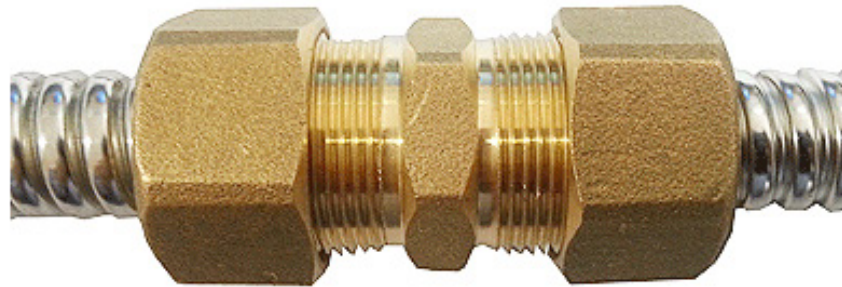


## Flexible tube for Solar Thermal System (Model-010)



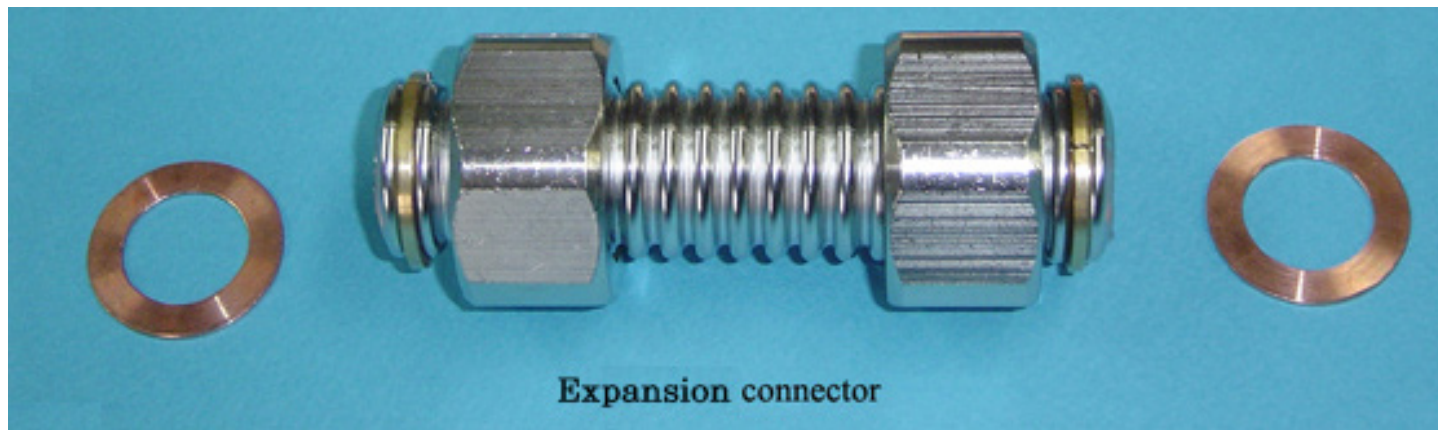
No	Component	Material	No	Component	Material
①	FLEXIBLE TUBE	AISI 304/316L	⑤	COMPRESSION SOCKET	BRASS
②	NUT	BRASS	⑥	COMPRESSION BRASS PACKING RING	BRASS
③	CLAMP SCREW RING	ZINC	⑦	COMPRESSION NUT	BRASS
④	CONE TYPE	GRAPHITE(HEAT RESISTING350°C)	⑧	COPPER TUBE	COPPER
		SILICONE(HEAT RESISTING150°C)			
		N.B.R(HEAT RESISTING120°C)			

Union Fitting (Fitting for connection between Corrugation tubes)



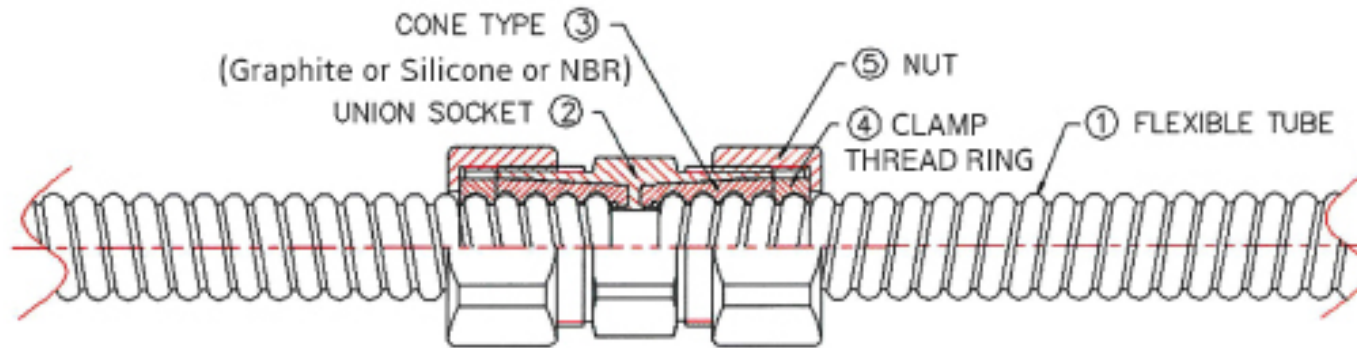
Annular type fitting (copper plate type)

· For solar thermal collector, heat-exchanger, water



## Flexible tube for Solar Thermal System (Model-010)

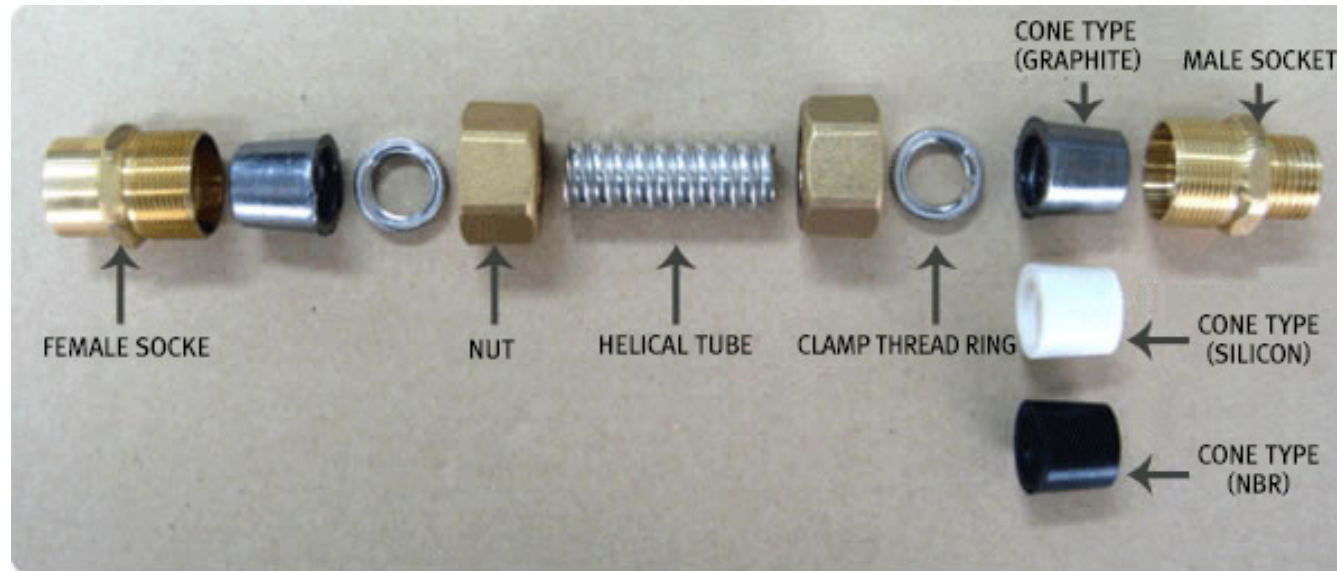
Union fitting



No	Component	Material	No	Component	Material
①	FLEXIBLE TUBE	AISI 304/316L	④	CLAMP THREAD RING	ZINC
②	UNION SOCKET	BRASS	⑤	NUT	BRASS
③	CONE TYPE	GRAPHITE (Heat resistanc 350 °C)			
		SILICONE (Heat resistanc150 °C)			
		N.B.R (Heat resistanc120 °C)			

## Helical type fitting (Cone type)

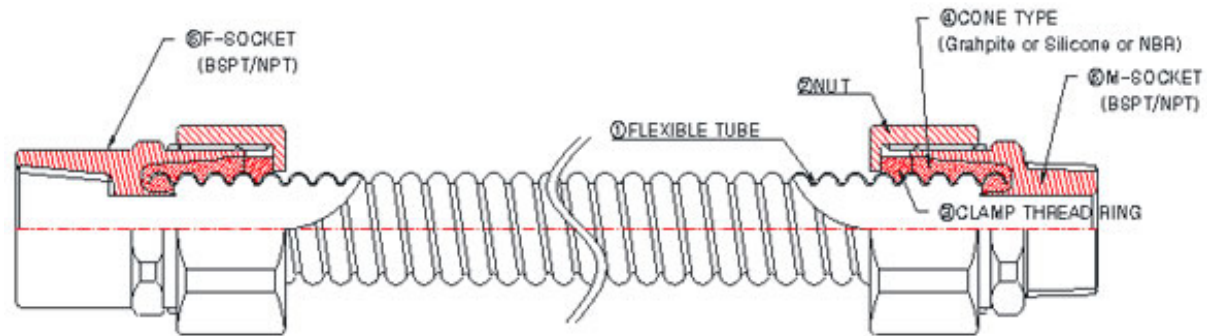
· For solar thermal collector, heat-exchanger, water



※ Please refer to MODEL-003 Assembly Guideline



## Flexible tube for Solar Thermal System (Model-010)



No.	Component	Material	No.	Component	Material
①	FLEXIBLE TUBE	AISI 304/316L	④	CONE TYPE	GRAPHITE (Heat resistanc350°C)
					SILICONE (Heat resistanc150°C)
					NBR (Heat resistanc120°C)
②	NUT	BRASS	⑤	M-SOCKET	BRASS
③	CLAMP THREAD RING	ZINC	⑥	F-SOCKET	BRASS

### Certifications

