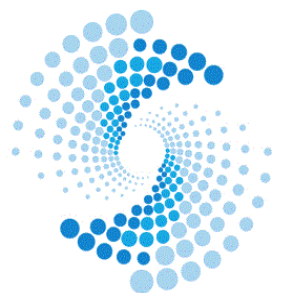


# *Metal Flexible Spiral Tubes*



Kokusan Rasenkan

[www.kokusan-flex.co.jp](http://www.kokusan-flex.co.jp)

## CONTENTS

Product Index	Page
Square Locked Tube — (SL)	3
Semi - Interlocked Tube — (SIL)	4
Interlocked Tube — (ILT)	4
Strong Gooseneck Tube — (SGT)	5

Inheriting the technology of Kokusan Rasenkan Seisakusho Co., Ltd, which was established as a Japanese spiral tube manufacturing company in the 1930s, we manufacture and sell based on the further developments of new spiral tube products, such as optical fiber protective tubes.

Our company was established in September 2018. In 2022, we successfully developed a state-of-the-art helical tube manufacturing machine for optical fiber protective tubes and started manufacturing and selling high quality and competitive priced protective tubes.

It is our aim to contribute to a society that is undergoing major changes, due to fast developments in the IT business. In particular we aim to be a development-oriented company, based on production efficiency, quality, stability and development capacity, in order to respond to the fiber-related markets, such as communications, sensors, semiconductor devices and power optical fibers.

## SQUARE LOCKED TUBE (SLT)

### Features :

- General purpose tube for fiber protection
- Low weight
- Good pliability
- Non stretching, excellent bending characteristics
- High pulling strength
- Lateral pressure resistant
- High level of safety, due to high impact resistance
- Highly fire resistant

### Materials :

- Tubing: Stainless steel
- Sheathing: Soft PVC, Olefin

### Applications :

- Optical fiber protection
- Various sensors protection
- Electrical wire protection
- Medical equipment
- Fiber scopes, light guides
- Commercial game machines
- Outdoor video surveillance cameras
- Protection against vandalism
- Rodent proof for outdoor applications
- Aircraft Industry

### Standard Length :

- Standard production length is approx. 100m



## SQUARE LOCKED TUBE (SLT)

## PVC Cover

Part Number	ID ±0.2 mm	OD ±0.2 mm	Bending R ±5 mm	Weight	Tensile breaking Value*	Tensile elongation*	Bending Radius*	Load Capacity (N)	Impulse Value	Part Number	OD ±0.3 mm	Weight
Type-ID			Reference Value	g/m	In N	@ 130 N	R=75 mm	10x10	g . m/s	Type-ID		g/m
SLT-1.2	1.2	2.3	25.0	11	180	< 6%	7	600	45	SLTP-1.2	3.1	18
SLT-1.5	1.5	2.6	25.0	13	210	< 5%	9	800	66	SLTP-1.5	3.4	21
SLT-1.8	1.8	2.9	25.0	15	250	< 5%	12	1000	74	SLTP-1.8	3.7	26
SLT-2.2	2.2	3.4	22.0	17	290	< 5%	15	1200	80	SLTP-2.2	4.5	39
SLT-2.6	2.6	3.8	23.0	19	320	< 5%	17	1400	90	SLTP-2.6	4.9	40
SLT-3.0	3.0	4.6	22.0	29		< 5%				SLTP-3.0	6.0	62
SLT-3.2	3.2	4.8	22.0	31		< 5%				SLTP-3.2	6.2	64
SLT-3.5	3.5	5.1	22.0	34		< 5%				SLTP-3.5	6.6	66
SLT-4.0	4.0	5.6	22.0	37		< 5%				SLTP-4.0	7.1	68
SLT-4.5	4.5	6.1	23.0	40		< 5%				SLTP-4.5	7.6	71
SLT-5.0	5.0	7.0	25.0	46		< 5%				SLTP-5.0	8.6	88
SLT-6.0	6.0	8.0	25.0	59		< 5%				SLTP-6.0	9.3	98
SLT-7.0	7.0	9.0	25.0	63		< 5%				SLTP-7.0	10.1	114
SLT-8.0	8.0	10.0	25.0	77		< 5%				SLTP-8.0	11.5	118

### Please Note:

\* The Tensile breaking value, Tensile elongation @130N, Bending value at bending R=75mm, Load resistance and impact resistance are reference values, not guaranteed values

## SEMI - INTERLOCKED TUBE (SIT)

### Features :

- Very strong interlocking
- Resists lateral pressure
- No elasticity, large bending radius

### Materials :

- Tubing: Stainless steel
- Sheathing: Soft Polyvinyl Chloride, Olefin, Silicon

### Applications :

- Hollow quartz fiber protection
- Laser welding fiber protection



## SEMI-INTERLOCKED (SIT)

Part Number	ID $\pm 0.2$ mm	OD $\pm 0.3$ mm	Bend $\varnothing \pm 15$ mm	Weight
Type-ID				g/m
SIT-5	5.0	7.0	35	65
SIT-6	6.0	8.0	35	75
SIT-7	7.0	9.0	35	80
SIT-8	8.0	10.0	40	90
SIT-9.5	9.5	12.2	65	115

## INTERLOCKED TUBE (IT)

### Features:

- Non elastic, maintains its bended form
- Excellent absorption of vibrations

### Applications:

- Optical Fiber Protection
- Microphone stands
- Exhaust pipes
- Hot water boilers
- Water purifiers, faucets, etc.

### Materials used:

- Stainless steel

Please contact us for customized applications



## INTERLOCKED TUBE (IT)

Part Number	ID $\pm 0.2$ mm	OD $\pm 0.3$ mm	Bend $\varnothing \pm 15$ mm	Weight
Type-ID				g/m
IT-8	8.0	10.5	40	130
IT-10	10.0	12.5	50	170
IT-11	11.0	13.5	55	185
IT-12.5	12.5	15.2	60	210

# Strong Gooseneck Tube (SGT)

## Features:

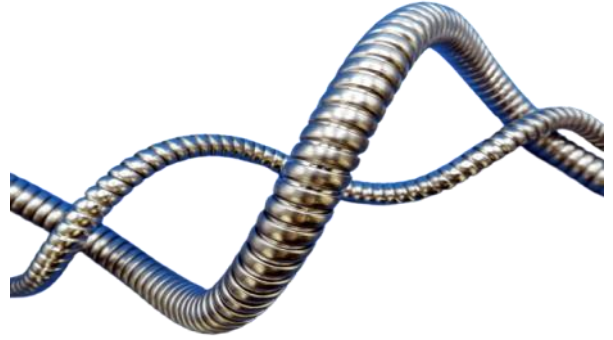
- Bends smoothly and maintains its bended form

## Applications:

- Microphone stands
- Adjustable reading lights
- Car accessories
- Military equipment

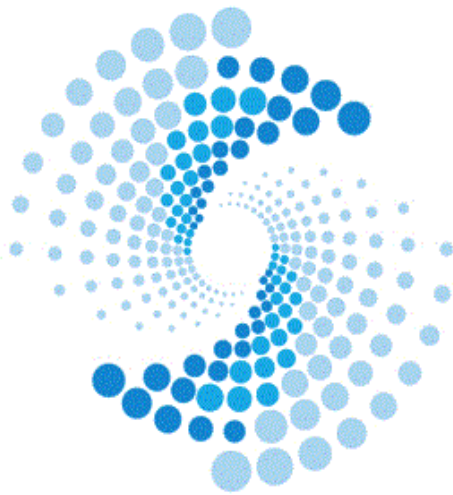
## Material used

- Hard and soft steel wire rods



# Strong Gooseneck Tube (SGT)

Part Number	ID $\pm 0.2$ mm	OD $\pm 0.3$ mm	Bend $\varnothing \pm 15$ mm	Weight	Holding power
Type-ID				g/m	N/500mm
SGT-13	7.5	13.5	80	290	5



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