

# Spiral Coiled Polyurethane Tube, Spiral Coiled Nylon Tube

Spiral Coiled Tube for General Pneumatic Piping

**⚠ Safety instructions for this product**  
 Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

## Model Designation (Example)

**UL** (1) **06** (2) **- 10** (3) **- B** (4)

### (1) Tube type

Code	UL	NL
Tube type	Polyurethane Coiling Tube	Nylon Coiling Tube

### (2) Tube dia. (O.D.×I.D.)

Code	03*	04	06	08	10	12
O.D. (mm)	ø3	ø4	ø6	ø8	ø10	ø12
I.D. (mm)	UL	ø2.5	ø4	ø5	ø6.5	ø8
	NL					

\* Tube O.D. ø 3mm is only available for UL (Polyurethane Coiling Tube).

### (3) Tube length (before being coiled) (○: Available)

Code	1	2	3	5	7	10	14	20
Length (m)	1	2	3	5	7	10	14	20
Tube O.D.	ø3 mm	○	○	○	○			
	ø4 mm		○	○	○	○	○	○
	ø6 mm		○	○	○	○	○	○
	ø8 mm			○	○	○	○	○
	ø10 mm				○	○	○	○
	ø12 mm				○	○	○	○

\* List above is tube full length before coiling process. Dimension after coiling is specified model code list of next page.

### (4) Tube color (○: Available)

Code	B	R	O	YB	Y	G	BU	CB	C	W
Tube color	Black	Red	Orange	Ocher	Yellow	Green	Blue	Clear blue	Transparent	Milky white
UL	○	△	△	△	△	△	△	△	△	△
NL	○	△	△	△	△	△	△	△	-	△

\* Marking △ is available as a make-to-order product.

## Characteristics

- Best suitable for piping such as air guns or air screwdrivers.
- The piping in moving part is completed in a small space without distorting the joints.

## Specifications (○: Available, △: Available as a make-to-order)

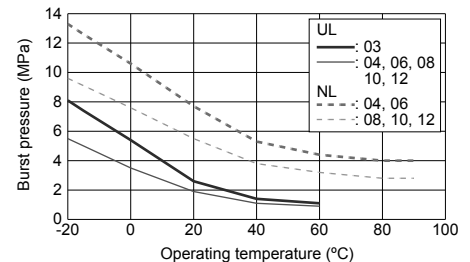
Model code	Polyurethane Coiling Tube						Nylon Coiling Tube					
	UL03	UL04	UL06	UL08	UL10	UL12	NL04	NL06	NL08	NL10	NL12	
Size	O.D.×I.D. (mm)						O.D.×I.D. (mm)					
	3×2	4×2.5	6×4	8×5	10×6.5	12×8	4×2.5	6×4	8×6	10×7.5	12×9	
Tube color	Black (B)			○					○			
	Red (R)			△					△			
	Orange (O)			△					△			
	Ocher (YB)			△					△			
	Yellow (Y)			△					△			
	Green (G)			△					△			
	Blue (BU)			△					△			
	Clear blue (CB)			△					△			
	Transparent (C)			△					-			
	Milky white (W)			△					△			
Specifications	Fluid medium	Air, Water (Conditional <sup>1</sup> )					Air, Water (Conditional <sup>1</sup> ), Heat medium oil (Conditional <sup>1</sup> )					
	Max. operating pressure (MPa)	1.0 (65%RH at 20°C <sup>2</sup> )					2.0 (65%RH at 20°C <sup>2</sup> )					
	Max. vacuum (kPa)	-100										
	Operating temp. range (°C)	Air: -20 to 60 (No freezing) Water: -15 to 60 (No freezing)					Air: -20 to 90 (No freezing) Water, Heat medium oil: -15 to 90 (No freezing)					

△ Warning

\*1. The following conditions must be observed when the fluid medium is water or heat medium oil.

- Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium, for NL: water and heat medium oil.
  - General tap water in Japan, free from foreign substances or contamination, can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
  - Be sure to place Insert Ring (WR) into the tube edge when tube is inserted into push-in fittings and using water (For NL: water and heat medium oil) as a fluid medium.
- \*2. The value of max. operating pressure is measured at 20°C and 65% RH. For other temperatures, the Burst Pressure Curve should be used with a sufficient safety margin. In addition, if the tube is in a moving part, such as a swinging or bending part, the temperature may rise due to self-heating caused by intermolecular heat generation, which may cause the tube to break.

## Burst Pressure Curve (Reference Value)



RoHS2 (2011/65/EU+EU2015/863) compliant

Tube type	Model code	øD (mm)	L1 (mm)	ød (mm)	L2 (mm)	Tube type	Model code	øD (mm)	L1 (mm)	ød (mm)	L2 (mm)
Polyurethane Coiling Tube <b>UL</b>	UL03-1-[4]	3	70	16	210	Nylon Coiling Tube <b>NL</b>	NL04-2-[4]	4	100	27	300
	UL03-2-[4]		150		450		NL04-3-[4]		165		500
	UL03-3-[4]		230		700		NL04-5-[4]		280		900
	UL03-5-[4]	390	1,200	NL04-7-[4]	395		1,200				
	UL04-2-[4]	4	120	24	360		NL04-10-[4]		580		1,800
	UL04-3-[4]		180		540		NL04-14-[4]		820		2,500
	UL04-5-[4]		350		1,100		NL04-20-[4]	1,200	3,600		
	UL04-7-[4]		480		1,500		NL06-2-[4]	140	420		
	UL04-10-[4]		700		2,100		NL06-3-[4]	210	650		
	UL04-14-[4]	1,040	3,200	NL06-5-[4]	340		1,100				
	UL04-20-[4]	1,450	4,400	NL06-7-[4]	480		1,500				
	UL06-2-[4]	6	160	30	500		NL06-10-[4]	680	2,100		
	UL06-3-[4]		230		700		NL06-14-[4]	960	2,900		
	UL06-5-[4]		430		1,300		NL06-20-[4]	1,400	4,200		
	UL06-7-[4]		620		1,900		NL08-3-[4]	140	420		
	UL06-10-[4]		910		2,800		NL08-5-[4]	230	700		
	UL06-14-[4]		1,300		3,900		NL08-7-[4]	330	1,000		
	UL06-20-[4]	1,850	5,600	NL08-10-[4]	500		1,500				
	UL08-3-[4]	8	250	42	750		NL08-14-[4]	700	2,100		
	UL08-5-[4]		390		1,200		NL08-20-[4]	1,000	3,000		
	UL08-7-[4]		540		1,700		NL10-5-[4]	220	660		
	UL08-10-[4]		770		2,400		NL10-7-[4]	325	1,000		
	UL08-14-[4]		1,045		3,200		NL10-10-[4]	460	1,400		
	UL08-20-[4]	1,550	4,700	NL10-14-[4]	650		2,000				
	UL10-5-[4]	10	330	58	1,000		NL10-20-[4]	930	2,800		
	UL10-7-[4]		470		1,400		NL12-5-[4]	200	600		
	UL10-10-[4]		680		2,100		NL12-7-[4]	280	900		
	UL10-14-[4]		970		3,000		NL12-10-[4]	410	1,300		
UL10-20-[4]	1,380		4,200		NL12-14-[4]	590	1,800				
UL12-5-[4]	12	310	72	1,000	NL12-20-[4]	820	2,500				
UL12-7-[4]		450		1,400							
UL12-10-[4]		660		2,000							
UL12-14-[4]		920		2,800							
UL12-20-[4]		1,320		4,000							



Notes

- \*1. Coilings other than the above type are available as special made items.
- \*2. For [4] in model code, please select a tube color code.
- \*3. Spiral Coiled tubes for UC, UBT, UBS, SFT, SET, CTA, CTB, FB, and UE are available as special made items. Please contact us for the details.



Packaging specifications

1 pc. /bag