

Tubes

Antistatic / Polyolefin / Fluororesin / Flexible Fluororesin / Soft Fluororesin

Antistatic Tubes PUAS PUASL	Part Number		Standard Length (m)	Configurable Length (0.5 m Increment)	Inner Diameter (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Mass (kg/m)
	Type	Outer Dia. (mm)	PUAS	PUASL				
	PUAS Standard Length	4	10	0.5-9.5 10.5-19.5				
6		20	4		15	0.019		
8		10	5		20	0.037		
PUASL Configurable Length		10	20		6.5	25	+0.1 -0.15	0.055
		12	10		8	30		0.076
			20					

Polyolefin Tubes PORF PORFL	Part Number		Standard Length (m)	Configurable Length (0.5 m Increment)	Inner Diameter (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Mass (kg/m)
	Type	Outer Dia. (mm)	PORF	PORFL				
	PORF Standard Length	4	10	0.5-9.5 10.5-19.5				
6		20	4		14	0.0141		
8		10	5		20	0.0276		
PORFL Configurable Length		10	20		6.5	25	0.0408	
		12	10		8.0	30		0.0565
			20					

Fluororesin Tubes PUTF PUTFL	Part Number		Standard Length (m)	Configurable Length (0.5 m Increment)	Inner Diameter (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)
	Type	Outer Dia. (mm)	PUTF	PUTFL						
	PUTF Standard Length	3.2	10	0.5-9.5 10.5-19.5						
4		20	2		30	2.5	10	0.020		
6		10	4		50	1.7	7	0.034		
PUTFL Configurable Length		8	20		6	80	1.1	4	0.047	
		10	10		8	120	+0.1 -0.15	0.8	3	0.061
		12	20		10	200		0.7	3	0.074

Maximum operating pressure and burst pressure shown are values at ambient temperature.

Flexible Fluororesin Tube PUFN	Part Number		L (mm)	Inner Diameter d (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)
	Type	Outer Dia. D (mm)							
	PUFN	6	300						
500									
1000									
8		300	300	6	10	1.1	4.5	0.047	
			500						
			1000						
10	300	300	8	15	0.8	3.5	0.061		
		500							
		1000							
12	300	300	10	15	0.7	3	0.074		
		500							
		1000							

- Minimum bending radius shown is based on static state. When tubing in the dynamic state, rough standard is the value of three times higher than that of static.
- Outer diameter accuracy is the value of straight parts at both ends.
- Maximum operating pressure and burst pressure shown are values at ambient temperature.

Soft Fluororesin Tubes PUJTF PUJTFL	Part Number		Standard Length (m)	Configurable Length (0.5 m Increment)	Inner Diameter (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Operating Pressure Mpa	
	Type	Outer Dia. (mm)	PUJTF	PUJTFL				at 20°C	at 80°C
	PUJTF Standard Length	4	10	0.5-20				2	12
6		20	4		24				
PUJTFL Configurable Length		9	10		6	36			
	12	20	8		48				
		10							

Features: The laminated structure realizes better flexibility than conventional fluororesin tubes (PUTF / PUTFL) and increases workability.

Part Number Example
 Part Number - Length
 PUJTF4 - 10
 PUFNG6 - 1000

Tubes / Tube Insert

Fluoro Rubber / Silicon / Spiral

Fluoro Rubber Tube – Transparent Type PUTFB PUTFBL	Part Number		Standard Length (m)	Configurable Length (0.5 m Inc.)	Inner Diameter (mm)	Outer Dia. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)
	Type	Outer Dia. (mm)	PUTFB	PUTFBL					
	PUTFB Standard Length	4	10	0.5-20					
6		20	4		0.149	0.594	0.030		
PUTFBL Configurable Length		8	10		6	0.09	0.360	0.042	
		10	20		8	0.049	0.195	0.053	
			10						

Feature: Excellent in transparency and chemical resistance.

Fluoro Rubber Tube – Heat Resistant Type PUTFG PUTFGL	Part Number		Standard Length (m)	Configurable Length (0.5 m Inc.)	Inner Diameter (mm)	Min. Bending Radius (mm)	Outer Dia. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)
	Type	Outer Dia. (mm)	PUTFG	PUTFGL						
	PUTFG Standard Length	4	10	0.5-20						
6		20	4		20	—	—	0.031		
PUTFGL Configurable Length		8	10		6	25	0.088	0.35	0.044	
		10	20		8	35	±0.2	—	—	0.080
			10							

Feature: Excellent in heat resistance (-200°C), oil resistance, ozone resistance, and chemical resistance.

Silicon Tube PUTC PUTCL	Part Number		Standard Length (m)	Configurable Length (0.5 m Increment)	Inner Diameter (mm)	Min. Bending Radius (mm)	Mass (kg/m)
	Type	Outer Dia. (mm)	PUTC	PUTCL			
	PUTC Standard Length	4	10	0.5-20			
6		20	4		20	0.018	
PUTCL Configurable Length		8	10		6	45	0.025
		10	20		8	70	0.033
		12	10		9	65	0.058

Use Inserts for Soft Tubes when connecting Silicone Tubes to One-Touch Couplings. (P2019-3477)

Part Number Example
 Part Number - Length
 PUTFB4 - 10
 PUTCL4 - 3.5

Spiral Tube PUSP	Part Number		Operating Binding Dia. D	*Length (m)
	Type	No.		
	PUSP	4	4-8	100
9		9-18	50	
20		20-40	25	

Part Number		Operating Binding Dia. D	*Length (m)
Type	No.		
PUSP	4	4-8	100
	9	9-18	50
	20	20-40	25

*The length is with nothing inserted inside the spiral tube.

Soft Tube Insert PUIT PACK-PUSIT	Type	Material	Surface Treatment
	PUIT	C2700 Brass (JIS)	Electroless Nickel Plating
	PACK-PUSIT	304 Stainless Steel	—

Part Number	Applicable Tube Outer Dia. (mm)	Applicable Tube Inner Diameter (mm)	D	d	D ₁	L	PUIT		PACK-PUSIT	
							1-9	10-30	1-2	3-10
							4	2.5	2.5	2.1
6	4	4.0	3.6	4.5	18.5	•	•	•	•	
8	5	5.0	4.6	5.5	20	•	•	•	•	
10	6.5	6.5	6.1	7.0	22	•	•	•	•	

Features: Prevents shrinkage of tube from inside. Insert from the connecting part of soft tubes. 10 pcs. per pack for PACK-PUSIT

Part Number Example
 Part Number
 PUIT4