

Tubes



Comparison points with similar parts

We have not only tubes for air but also water resistant polyurethane tubes which can be used for water and other variety of products. We will ship a tube cut to the length you specify so that you can use it without any waste.

Water Resistant Polyurethane Tubes PUT PUTL

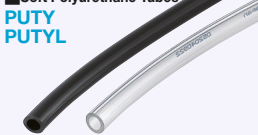


Material: Polyurethane

RoHS

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg / m)	Standard		Configurable Length		
Type	O.D. (mm)	PUT	PUTL						Unit Price	Volume Discount Rate	Unit Price / m	Volume Discount Rate / m	
PUT (Standard Length)	3.2	10	0.5~ 9.5 10.5~19.5	B (Black) C (Transparent)	1.8	7	±0.1	0.0064			-	-	
		20											
	4	10		B (Black) C (Transparent) W (White) R (Red) Y (Yellow) BL (Blue) G (Green) CB (Transparent Blue)	2.5	5		0.009					
		20											
		100											
	6	10			4	12		0.019					
20													
100													
8	10	5			15	±0.15	0.037						
	20												
	100												
10	10	6.5			25		0.055						
	20												
	100												
PUTL (Configurable Length)	12	10			8		28		0.076				
		20											
		100											
	16	10		B (Black)	11	30		0.127					

Soft Polyurethane Tubes PUTY PUTYL



Material: Soft Polyurethane

RoHS

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg / m)	Standard		Configurable Length	
Type	O.D. (mm)	PUTY	PUTYL						Unit Price	Volume Discount Rate	Unit Price / m	Volume Discount Rate / m
PUTY (Standard Length)	4	10 20	0.5~ 9.5 10.5~19.5	B (Black) C (Transparent)	2.5	17	+0.05 -0.2	0.009				
	6	10 20			4	28		0.019				
		8			10 20	5		36	0.037			
PUTYL (Configurable Length)	10	10 20			6.5	45		0.055				

Use Inserts for Soft Tubes on P1390 when connecting these tubes to One-Touch Couplings.

Nylon Tubes PUTN PUTNL



Material: Nylon (Polyamide)

RoHS

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Burst Pressure (MPa)	Normal Pressure (MPa)	Mass (kg / m)	Standard		Configurable Length	
Type	O.D. (mm)	PUTN	PUTNL								Unit Price	Volume Discount Rate	Unit Price / m	Volume Discount Rate / m
PUTN (Standard Length)	3.2	10 20	0.5~ 9.5 10.5~19.5	B (Black) W (White)	2	7	±0.05 -0.10	5.4	1.8	0.0052			-	-
	4	10 20			2.5	10		6.0	2.0	0.008				
		6			10 20	4		20		5.1	1.7	0.017		
	8	10 20			3.9					1.3	0.026			
		10			10 20					3.6	1.2	0.040		
	12				10 20					3.6	1.2	0.053		

Pressure Resistant Nylon Tubes PUTHP PUTHPL



Material: Nylon (Polyamide)

RoHS

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Burst Pressure (MPa)	Normal Pressure (MPa)	Mass (kg / m)	Standard		Configurable Length		
Type	O.D. (mm)	PUTHP	PUTHPL								Unit Price	Volume Discount Rate	Unit Price / m	Volume Discount Rate / m	
PUTHP (Standard Length)	4	10 20	0.5~ 9.5 10.5~19.5	B (Black) W (White)	2.5	15	±0.05 +0.05 -0.1	8.8	2.9	0.008			1~ 4 pcs).	5~10	
	6	10 20			4	25		7.7	2.6	0.017					
		8			10 20	6		35	5.5	1.8	0.023				
PUTHPL (Configurable Length)	10	10 20			8	50		5.1	1.7	0.029					
	12	10 20			9	55		5.5	1.8	0.052					
	16	10 20			12.8	100		+0.05 -0.15	4.0	1.3	0.076				

Soft Nylon Tubes PUTNS PUTNSL



Material: Nylon

RoHS

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg / m)	Standard		Configurable Length	
Type	O.D. (mm)	PUTNS	PUTNSL						Unit Price	Volume Discount Rate	Unit Price / m	Volume Discount Rate / m
PUTNS (Standard Length)	4	20	0.5~ 9.5 10.5~19.5	W (White) B (Black)	2.5	14	±0.1	0.009				
	6				4	21		0.017				
	8				6	34		0.023				
	10				7.5	42		0.036				
	12				9	51		0.052				



Ordering

Part Number - Length - Color

Example PUT4 - 10 - B

PUTNL8 - 2.5 - W

Tubes

■ Flat Tubes
PUTMF
PUTMFL



Material: Polyurethane **RoHS**

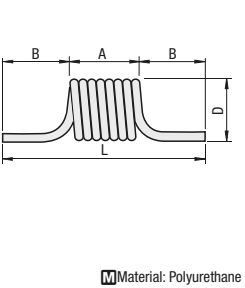
Part Number		Number of Bores	Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	Mass (kg/m)	Standard		Configurable Length	
Type	O.D. (mm)		PUTMF	PUTMFL				Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
PUTMF (Standard Length) PUTMFL (Configurable Length)	4	2	20	0.5~19.5	2	15	0.022	1 pc.	2~4	1 pc.	2~4
		3			2.5		0.033				
		4					0.044				
	6	2			4	25	0.038				
		3					0.057				
		4					0.076				
	8	2			5	40	0.074				
		3					0.111				
		4					0.148				
	10	2			6.5	55	0.11				
		3					0.165				
		4					0.22				
	12	2			8	65	0.152				
		3					0.22				
		4					0.304				

Color Matching: 2-Bore=Clear, Blue; 3-Bore=Clear, Blue, Light Green; 4-Bore=Clear, Blue, Light Green, Green

■ Water Resistant Polyurethane Spiral Tubes
PUTSP



Material: Polyurethane **RoHS**



Part Number	Opening Unit Length (mm)	Tube Color	I.D. (mm)	D (mm)	L (mm)	A (mm)	B (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg/m)	Unit Price/m	Volume Discount Rate/m
PUTSP	4	700	B (Black)	2	21	460	60	15	5	±0.1	0.009	
		1000		4	38	520	120					
		1300		6	52	580	180					
	6	850		4	38	490	90					
		1300		6	52	580	180					
		1750		8	67	670	270					
	8	1000		5	42	520	120					
		1600		6	52	580	180					
		2200		8	67	760	360					
	10	1150		6.5	52	550	150		±0.1 -0.15	0.055		
		1900		8	67	700	300					
		2650		10	82	850	450					
	12	1300		8	67	580	180					
		2200		10	82	760	360					
		3100		12	97	940	540					

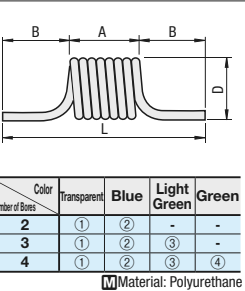
Operating Limit Length is the overall length (L) of the tube when extended to a serviceable maximum. Minimum bending radius is based on operation of bending the straight parts at both ends.

■ Multi-Spiral Tubes
PUTMSP



Core (Color) Arrangements **RoHS**

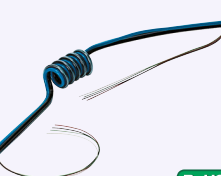
2 Bores	3 Bores	4 Bores
①②	①②③	③④①②



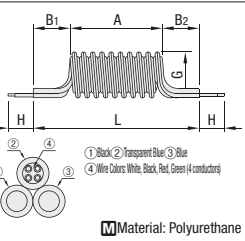
Part Number	Number of Bores	Nominal Length	Opening Unit Length (mm)	I.D. (mm)	Min. Bending Radius (mm)	D (mm)	L (mm)	A (mm)	B (mm)	Unit Price/m	Volume Discount Rate/m
PUTMSP	4	2	700	4	15	21	529	129	200	1 pc.	2~4
		3	800		2	27	594	194	200		
		4	700		40	35	529	129	200		
	6	2	900		25	38	595	195	200		
		3	1100		44	693	293	200			
		4	900		65	56	595	195	200		
	8	2	1200		40	42	670	270	200		
		3	1400		50	805	405	200			
		4	1200		90	66	670	270	200		
	10	2	1400		55	52	739	339	200		
		3	1600		63	909	509	200			
		4	1400		160	83	739	339	200		
	12	2	1700		65	67	805	405	200		
		3	1900		84	1008	608	200			
		4	1600		230	108	805	405	200		

Operating Limit Length is the overall length (L) of the tube when extended to a serviceable maximum. Minimum bending radius is based on operation of bending the straight parts at both ends.

■ Slit Spiral Tubes
With Fluororesin Insulated Wire



Material: Polyurethane **RoHS**



Part Number	Nominal Length	Wire (mm²)	L (mm)	Operating Unit Length (mm)	I.D. (mm)	Min. Bending Radius (mm)	A (mm)	B1 (mm)	B2 (mm)	H (mm)	Unit Price/m	Volume Discount Rate/m
PUTSP	4	500	0.15	445	2.5	40	45	150	250	350	1 pc.	2~4
		800	0.15	535		135	135	150	250	350		
		900	0.15	580		180	180	150	250	350		
	6	500	0.3	465		65	65	150	250	49		
		700	0.3	530		130	130	150	250	49		
		800	0.3	595		195	195	150	250	49		
	8	600	0.3	490		90	90	150	250	66		
		900	0.3	580		180	180	150	250	66		
		1200	0.3	670		270	270	150	250	66		

Operating Limit Length is the overall length (L) of the tube when extended to a serviceable maximum. Minimum bending radius is based on operation of bending the straight parts at both ends.

Features The tube can flex and follow the movements of linear slide units, etc. Electrical wire can easily be inserted and removed from the slit on the side.

■ Sputtering Resistant Tubes
PUTS
PUTSL



Material: Incombustible Polyurethane **RoHS**

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	Tube Color	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg/m)	Standard		Configurable Length	
Type	O.D. (mm)	PUTS	PUTSL						Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
PUTS (Standard Length) PUTSL (Configurable Length)	6	10	0.5~9.5 10.5~19.5	B (Black) R (Red) G (Green)	4	15	±0.1	0.019	1~4 pc(s).	5~10	1~4 pc(s).	5~10
		20			5	20		0.037				
		30			6.5	25	±0.1 -0.15	0.055				
	8	10			4	15						
		20			5	20						
		30			6.5	25						
	10	10			4	15						
		20			5	20						
		30			6.5	25						
	12	10			4	15						
		20			5	20						
		30			6.5	25						

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg/m)	Standard		Configurable Length	
Type	O.D. (mm)	PUVFN	PUVFLN					Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
PUVFN (Standard Length) PUVFLN (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2.5	12	±0.1	0.009	1~4 pc(s).	5~10	1~4 pc(s).	5~10
		20									
		30									
	6	10									
		20									
		30									

Use Inserts for Soft Tubes on (P1390) when connecting these tubes to One-Touch Couplings.

Ordering Example

Part Number	-	Number of Bores	-	Length
PUTMF4	-	3	-	20
PUTMSP6	-	4	-	900
Part Number	-	Length	-	Color
PUTSL8	-	1.5	-	R

For characteristics, see P1383.

■ Antistatic Tubes
PUAS
PUASL



Material: Conductive Polyurethane **RoHS**

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg/m)	Standard		Configurable Length	
Type	O.D. (mm)	PUAS	PUASL					Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
PUAS (Standard Length) PUASL (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2.5	10	±0.1	0.009	1~4 pc(s).	5~10	1~4 pc(s).	5~10
		20		4	15		0.019				
		30		5	20		0.037				
	6	10		4	15	±0.1	0.019				
		20		5	20		0.037				
		30		6.5	25		0.055				
	8	10		5	20	±0.1	0.037				
		20		6.5	25		0.055				
		30		8	30		0.076				
	10	10		6.5	25	±0.1	0.055				
		20		8	30		0.076				
		30		10	40		0.095				

■ Polyolefin Tubes
PORF
PORFL



Material: Polyolefin Resin **RoHS**

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Mass (kg/m)	Standard		Configurable Length	
Type	O.D. (mm)	PORF	PORFL					Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
PORF (Standard Length) PORFL (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2.5	8	±0.1	0.0089	1~4 pc(s).	5~10	1~4 pc(s).	5~10

Tubes

■ Fluoro Rubber Tubes Transparent Type PUTFB PUTFBL



RoHS

Material: Fluoro Rubber

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	O.D. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)	Standard		Configurable Length	
									Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
Type	O.D. (mm)	PUTFB	PUTFBL						1 ~ 4 pc(s).	5~10	1 ~ 4 pc(s).	5~10
PUTFB (Standard Length) PUTFBL (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2	±0.15	0.248	0.993	0.018				
		20										
	6	10		4		0.149	0.594	0.030				
		20										
	8	10		6		0.09	0.360	0.042				
		20										
	10	10		8		0.049	0.195	0.053				
		20										

■ Features: Excellent in transparency and chemical resistance.

■ Fluoro Rubber Tubes Heat Resistant Type PUTFG PUTFGL



RoHS

Material: Fluoro Rubber

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	O.D. Accuracy (mm)	Max. Operating Pressure (MPa)	Burst Pressure (MPa)	Mass (kg/m)	Standard		Configurable Length	
										Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
Type	O.D. (mm)	PUTFG	PUTFGL							1 ~ 4 pc(s).	5~10	1 ~ 4 pc(s).	5~10
PUTFG (Standard Length) PUTFGL (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2	-	±0.15	-	-	0.019				
		20											
	6	10		4	20		-	-	0.031				
		20											
	8	10		6	25	0.088	0.35	0.044					
		20											
	10	10		8	35	±0.2	-	-	0.080				
		20											

■ Features: Excellent in heat resistance (~ 200°C), oil resistance, ozone resistance, and chemical resistance.

■ Silicon Tubes PUTC PUTCL



RoHS

Material: Silicon Rubber

Part Number		Standard Length (m)	Configurable Length (0.5m Increment)	I.D. (mm)	Min. Bending Radius (mm)	Mass (kg/m)	Standard		Configurable Length	
		Type					Unit Price	Volume Discount Rate	Unit Price/m	Volume Discount Rate/m
		O.D. (mm)	PUTC	PUTCL			1 ~ 4 pc(s).	5~10	1 ~ 4 pc(s).	5~10
PUTC (Standard Length) PUTCL (Configurable Length)	4	10	0.5~9.5 10.5~19.5	2	10	0.011				
	6	10		4	20	0.018				
	8	20		6	45	0.025				
		10								
	10	20		8	70	0.033				
		10								
	12	20		9	65	0.058				
		10								

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

Tube Clips / Tube Cutter

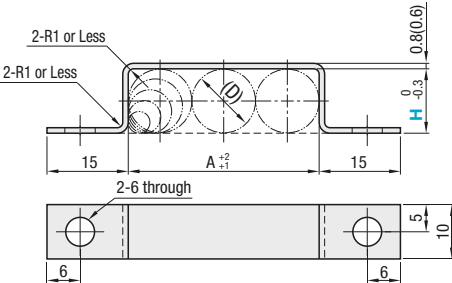
■ Tube Clips



RoHS

Type	Material	Surface Treatment
CUCLP	EN 1.0330 Equiv.	Trivalent Chromate
CUCPLS	EN 1.4301 Equiv.	-

Dimensions in () are for CUCPLS.



Part Number		Number of Tubes	A	Applicable Tube O.D. (D)	Unit Price	
Type	H				CUCLP	CUCPLS
CUCLP CUCPLS	4	2~10	4x pcs.	4		
	6		6x pcs.	6		
	8		8x pcs.	8		
	10		10x pcs.	10		
	12		12x pcs.	12		

Ordering Example
Part Number
CUCPL4

■ Soft Tube Inserts



RoHS

Type	Material	Surface Treatment
PUIT	EN CW508L Equiv.	Electroless Nickel Plating
PACK-PUSIT	EN 1.4301 Equiv.	-



Part Number		Applicable Tube I.D. (mm)	D	d	D1	L	PUIT		PACK-PUSIT	
Type	Applicable Tube O.D. (mm)						Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
							1 ~ 9 pc(s).	10~30	1 ~ 2 pack(s)	3~10
PUIT PACK-PUSIT	4	2.5	2.5	2.1	2.8	18				
	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				

10 pcs. per pack for PACK-PUSIT.

■ Features

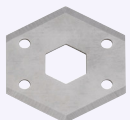
- Prevents shrinkage of tube from inside.
- Insert this into the connecting part of soft tubes.

Ordering Example
Part Number
PUIT4

■ Tube Cutter TCK

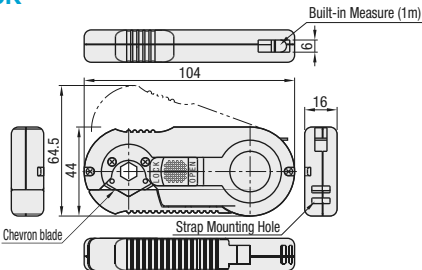


■ Tube Cutter Replacement Blade TCKE



RoHS

TCK



Part Number	Unit Price
Type	1 ~ 20 pc(s).
TCK	

Part Number	Quantity	Unit Price
Type		1 ~ 10 pc(s)
TCKE	10 pcs. / set	

■ Features

- New edges can be used by turning the chevron blade 180 degrees.
- The tube can be cut at a desired length using the built-in measure.
- The tube cutter can be safely stored using the lock mechanism.

Ordering Example
Part Number
TCK