

Polyolefin Tube, Soft Polyolefin Tube

Tube for Clean Environment

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)

CTA (1)	0640 (2)	-	20 (3)	-	CG (4)	-C (5)
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(1) Tube type

Code	CTA	CTB
Tube type	Polyolefin	Soft Polyolefin

(2) Tube dia. (O.D. x I.D.) *The values in () in the row Code represent the tube O.D. in inches.

■ Polyolefin Tube (CTA)

	mm size (mm)									inch size (inch)		
Code	0420(5/32)	0425(5/32)	0640	0860(5/16)	1075	1080	1290	1210	1613(5/8)	1/4	3/8	1/2
O.D.	ø4	ø4	ø6	ø8	ø10	ø10	ø12	ø12	ø16	ø1/4	ø3/8	ø1/2
I.D.	ø2	ø2.5	ø4	ø6	ø7.5	ø8	ø9	ø10	ø13	ø0.18	ø0.28	ø0.38

■ Soft Polyolefin Tube (CTB)

Code	mm size (mm)					inch size (inch)		
	0425(5/32)	0640	0850(5/16)	1065	1280	1/4	3/8	1/2
O.D.	ø4	ø6	ø8	ø10	ø12	ø1/4	ø3/8	ø1/2
I.D.	ø2.5	ø4	ø5	ø6.5	ø8	ø0.16	ø0.24	ø0.33

(3) Tube length

Code	20	100
Length (m)	20	100

*CTA1613 is available only in 20 m.

(4) Tube color

Code	B	CR	CY	CG	CB	CW
Tube color	Black	Clear red	Clear yellow	Clear green	Clear blue	Clear white

*The fluid medium inside the tube may difficult to observe when using a certain size of Clear red color tube.

(5) Packaging spec. (Optional)

Code	No code	-C
Packaging	Standard packaging	Clean-room package

*1. Clean-room packaging is only available for tube length of 20 m.

*2. Clean-room packaging is not available for CTA1613.

Characteristics

Adopting a polyolefin type resin suitable for clean environment.

Food Sanitation Act compliant.

*Refer to P.6 for details.

Superior water resistance.

Two types of tube hardness are available depending on the application.

CTA is suitable for application requiring sufficient flow rate, and CTB is for compact piping.

Tubing color comes in 6 colors.

● Clean-room package (Optional)

Suitable for clean environment.

Cleaned and packaged in cleanroom ISO class 6 equivalent. Packaged in antistatic packaging material that prevents dust from sticking.

Specifications

		CTA											
		mm size (mm)									inch size (inch)		
Size	Code	0420 (5/32")	0425 (5/32")	0640	0860 (5/16")	1075	1080	1290	1210	1613 (5/8")	1/4	3/8	1/2
	O.D. x I.D.	4×2	4×2.5	6×4	8×6	10×7.5	10×8	12×9	12×10	16×13	1/4x0.18	3/8x0.28	1/2x0.38
	Tube length (m)	20 · 100									20	20 · 100	
Tube color: 6 colors		Black (B), Clear red (CR), Clear yellow (CY), Clear green (CG), Clear blue (CB), Clear white (CW)											
Specifications	Fluid medium	Air, Water (Conditional *1), Other chemicals (Conditional *1)											
	Max. operating pressure(MPa)	1.0(*2)					0.7(*2)	1.0(*2)	0.7(*2)		1.0(*2)		
	Max. vacuum(kPa)	-100											
	Operating temp. range (°C)	-15 to 80 (No freezing)											
	Min. bending radius (JIS) (mm)	5	7	12	23	27	39	33	60	66	15	27	33
Min. installation radius (Vice) (mm)		9	13	21	37	46	60	54	96	120	27	46	54

		CTB							
		mm size (mm)					inch size (inch)		
Size	Code	0425 (5/32")	0640	0850 (5/16")	1065	1280	1/4	3/8	1/2
	O.D. x I.D.	4×2.5	6×4	8×5	10×6.5	12×8	1/4x0.16	3/8x0.24	1/2x0.33
Specifications	Tube length (m)	20 · 100							
	Tube color: 6 colors	Black (B), Clear red (CR), Clear yellow (CY), Clear green (CG), Clear blue (CB), Clear white (CW)							
	Fluid medium	Air, Water (Conditional ^{*1}), Other chemicals (Conditional ^{*1})							
	Max. operating pressure(MPa)	0.8(65% RH at 20°C ^{*2})							
	Max. vacuum(kPa)	-100							
	Operating temp. range (°C)	-15 to 80 (No freezing)							
	Min. bending radius (JIS) (mm)	7	12	18	20	12	18	22	
	Min. installation radius (Vice) (mm)	15	25	29	41	25	29	45	

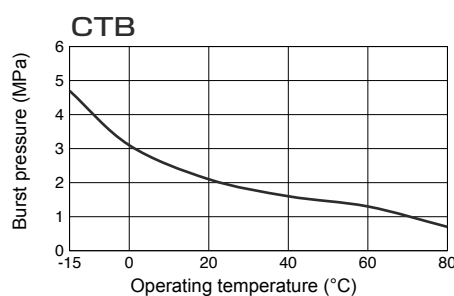
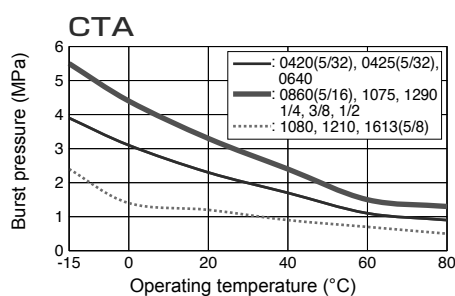
⚠ Warning

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

- (1). When using water or liquid, the surge pressure must be kept below the maximum operating pressure.
- (2). 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.
- (3). Be sure to place Insert Ring (WR) into the tube edge when tube is inserted into push-in fittings and using water or liquid as a fluid medium.
- (4). The use of water may cause discoloration of the tube, but it does not affect the performance.
- (5). As for chemicals, mixed gas, etc., they may vary depending on the conditions of use, so please check the compatibility of our specifications before use.

*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.

Burst Pressure Curve (Reference Value)



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

Tube type	Model Code	Tube type	Model Code
Polyolefin CTA	CTA0420-[3]-[4][5]	Soft Polyolefin CTB	CTB0425-[3]-[4][5]
	CTA0425-[3]-[4][5]		CTB0640-[3]-[4][5]
	CTA0640-[3]-[4][5]		CTB0850-[3]-[4][5]
	CTA0860-[3]-[4][5]		CTB1065-[3]-[4][5]
	CTA1075-[3]-[4][5]		CTB1280-[3]-[4][5]
	CTA1080-[3]-[4][5]		CTB1/4-[3]-[4][5]
	CTA1290-[3]-[4][5]		CTB3/8-[3]-[4][5]
	CTA1210-[3]-[4][5]		CTB1/2-[3]-[4][5]
	CTA1613-20-[4]		
	CTA1/4-[3]-[4][5]		
	CTA3/8-[3]-[4][5]		
	CTA1/2-[3]-[4][5]		

i Notes

*1. Tubes with desired length are available as make-to-order items. Contact us for the price.

*2. For [3] in model code, please select a code of tube length, for [4], please select a tube color code.



Packaging specifications

20 M lengths / bag: Applicable to all types
100 M lengths / box: Applicable to all types except CTA1613.



Option

[5] : -C ⇒ Clean-room package