



FLUIDLINE
YOUR BEST CONNECTION

Single-Jacketed Tubing

FLUIDLINE offers single-jacketed tubing to prevent external corrosion on the tube surface. It also protects the tube mechanically from external heat and damage in critical applications.

Single coated tubing is the perfect solution for Chloride Stress Corrosion Cracking. This phenomenon occurs above 60°C in offshore and coastal areas where salty and humid conditions apply.

Stainless Steel (SS) and Copper tube inners available in straight lengths, coiled or cut to length. Quality SS316L BA tube utilised for coated SS tube. Available with TPU or PVC coating.

Technical Data Metric

Tube OD mm	Wall Thickness mm	Working Pressure bar		Max Process Temperature C°	Min Service and Installation Temperature C°	Min Jacket Tube OD* mm	Support Centers m		Min Bend Radius cm
		Seamless	Welded				Horizontal	Vertical	
Annealed 316 Stainless Steel Tubing complying with ASTM A213 or A269									
6	1.0	420	336	105 PVC Jacket	-34 Service	8.60	1.80	4.60	20.00
	1.2	540	432						
	1.5	710	568						
10	1.0	240	192			12.60			
	1.2	300	240						
	1.5	400	320						
12	1**	200	160		14.60				
	1.2	250	200						
	1.5	330	264						
	2.0	470	376						
18	1.2**	150	120		20.60				
	1.5	200	160						
	2.0	290	232						
25	1.8**	180	144		27.60				
	2.0	200	160						
Annealed Copper Tubing complying with ASTM B68, B75									
6	1.0	90		105 PVC Jacket	-34 Service	8.60	1.80	4.60	20.00
	1.2	150							
	1.5	200							
10	1.0	60				12.60			
	1.2	100							
	1.5	140							
12	1**	50			14.60				
	1.2	75							
	1.5	100							
	2.0	130							
18	1.2**	40			20.60				
	1.5	60							
	2.0	80							
25	1.8**	40			27.60				
	2.0	50							

*** Maximum process temperature NOT continuous temperature rating which is 105 Deg C according to UL 1581.
Please contact us for more information about heat tolerance.

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Fractional

Tube OD in.	Wall Thickness in.	Working Pressure psig		Max Process Temperature °F	Min Service and Installation Temperature °F	Min Jacket Tube OD* in.	Support Centers ft		Min Bend Radius in.			
		Seamless	Welded				Horizontal	Vertical				
Annealed 316 Stainless Steel Tubing complying with ASTM A213 or A269												
1/4	0.035	5200	4160	221 PVC Jacket 257 TPU Jacket***	-30 Service	0.35	6.00	15.00	8.00			
	0.049	7600	6080									
	0.065	10150	8120									
3/8	0.035	3350	2680			0.48						
	0.049	4850	3880									
	0.065	6525	5220									
1/2	0.035**	2650	2120		-10 Installation	0.60						
	0.049	3750	3000									
	0.065	5150	4120									
	0.083	6525	5220									
3/4	0.049**	2450	1960			0.85						
	0.065	3350	2680									
	0.083	4250	3400									
1	0.065**	2100	1680			1.10						
	0.083	2700	2160									
Annealed Copper Tubing complying with ASTM B68, B75												
1/4	0.035	1400		221 PVC Jacket 257 TPU Jacket***	-30 Service	0.35	6.00	15.00	8.00			
	0.049	2175										
	0.065	2900										
3/8	0.035	900				0.48						
	0.049	1450										
	0.065	2030										
1/2	0.035**	800			-10 Installation	0.60						
	0.049	1088										
	0.065	1450										
	0.083	1885										
3/4	0.049**	580				0.85						
	0.065	870										
	0.083	1160										
1	0.065**	580				1.10						
	0.083	725										

* Note: Standard Coating Wall Thickness 1.3mm (0.052")

*** Maximum process temperature NOT continuous temperature rating which is 105 Deg C according to UL 1581.

**Note: Not recommended to use with Gas service
Please contact us for more information about heat tolerance.

Jacket Materials

UTC Special TPU is a part of the Thermoplastic Polyurethane family that has unique properties such as the ability to meet low temperature environment, excellent abrasion resistance and contains no chlorides.

The UTC special PVC outperform the standard PVC properties and its special composition allows to work in an extreme low temperature with high flame retardant resistance.

Jacket Properties	Standard 105C PVC	UTC TPU
Maximum temperature	105°C (221°F)	125°C(257°F)***
Minimum installation temperature	-10°C (-14°F)	-40°C (-40°F)
Minimum service temperature	-10°C (14°F)	-58°C (-72°F)
Hardness - Shore A	95 A	90 A
Tensile strength	2000 psi (137 bar)	4,655 psi (320 bar)
Water absorption	1,500-3,000ppm	5,000-7,000ppm
Flame retardant	V2	V0 (3mm)
UV resistance	F	E
Abrasion resistance	G	E
Halogenated (Chlorides)	YES	NO

P = Poor, F = Fair, G = Good, E = Excellent

PVC

Jacket Properties	UTC PVC	Test Method
Maximum temperature	105°C (221°F)	BS 6746
Minimum installation temperature	-10°C (-14°F)	
Minimum service temperature	-40°C (-40°F)	
Hardness - Shore A	93 A	ASTM D 2240
Tensile strength	2900 psi (194 bar)	ASTM D 638
Water absorption	1,500-3,000ppm	
Flame retardant	V0	UL 94
UV resistance	750 h	UL-1581
Abrasion resistance	200-300	
Halogenated (Chlorides)	Halogenated	

TPU

Jacket Properties	UTC TPU	Test Method
Maximum temperature	125°C(257°F)***	ISO 868
Minimum installation temperature	-40°C (-40°F)	
Minimum service temperature	-58°C (-72°F)	
Hardness - Shore A	90 A	ISO 527
Tensile strength	4,655 psi (32.1 MPa)	
Water absorption	5,000-7,000ppm	UL 94
Flame retardant	V0 (3mm)	
UV resistance	2000 h	UL-1581
Abrasion resistance	65 (mm3 loss)	ISO 4649
Halogenated (Chlorides)	Zero Halogen	