

Daechun's Single & Multi Core Innovation - Smart Tubes for Critical Marine & Offshore Applications

We're excited to highlight **Daechun Industrial Co., Ltd.**, a trusted name in advanced tubing solutions for shipbuilding, offshore, and industrial applications.

Daechun's Single & Multi Core Tubes offer cost effective and exceptional reliability for systems such as a Total Tube Solution Maker, Stainless Steel & Various Alloys Seamless & Seam-welded Coil Tubes, Straight Tubes, mainly for oil (or air) use onboard all kind of vessels existing & new buildings.

Certified by all major classification societies, as well as certified by TUV, ISO 9001, ISO 14001, and ISO 45001, ensuring the highest quality standards, environmental management, and occupational health and safety practices. Daechun products are widely adopted by global shipyards and offshore platforms.

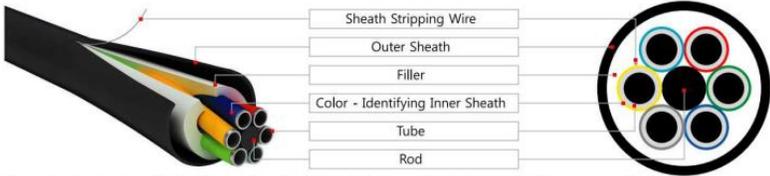
Explore how Daechun can optimize your systems with performance, safety, and longevity in mind!

MCT

Single Jacketed Tubing & Multi Core Tube Bundles

DAECHUN

Cross Section View



Single Jacketed Tubing (Both Straight and Coiled Tubings available)

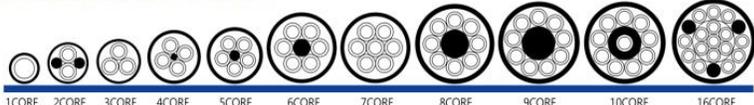


Tube Material
Stainless Steel, High Alloy Stainless Steel, Super Austenitic, Nickel Alloy, Duplex, Copper, Copper-Nickel 90/10, ETC

Sheath Material
PVC, FR PVC, HR PVC, HFFR TPU, PE, HFFR PE, XLPE, TEFLON, ETC

Available from 1 Core to 16 Core

Structural Cross - Section



1CORE 2CORE 3CORE 4CORE 5CORE 6CORE 7CORE 8CORE 9CORE 10CORE 16CORE



	Pre-insulation Tube	Steam Tracing Tube	Electric Tracing Tube
Construction	Stainless Steel, Copper or Teflon Tubing E-Glass Fiber Heat Reflective Foil HR PVC or TPU Jacket	Stainless Steel, Copper or Teflon Tubing Stainless Steel, Copper or Teflon Tubing Heat Reflective Foil E-Glass Fiber, HR PVC or TPU Jacket	Stainless Steel, Copper or Teflon Tubing Self Regulating or Power Limiting Cable Heat Reflective Foil E-Glass Fiber, HR PVC or TPU Jacket
Temperature	Max. 400°F(204°C) or Higher Temperature	Max. 400°F(204°C) or Higher Temperature	-76°F~248°F (-60°C~120°C) or 400°F(204°C) or Higher Temperature
Main Application	<ul style="list-style-type: none"> •Steam supply & Condensate return •Analyzer Sampling lines •Instrument impulse lines 	Light Steam Tracing <ul style="list-style-type: none"> •Process, Impulse and Instrument lines •Water or light-oil lines •Paraffin or paraffin-oil lines •Temperature-sensitive chemical lines Heavy Steam Tracing <ul style="list-style-type: none"> •Pressure transmission lines •Analyzer sampling lines •High temp. steam lines 	Electric Tracing-Maintenance <ul style="list-style-type: none"> •Analyzer sampling lines •Continuous fluid temperature maintenance •Fluid viscosity control lines Electric Tracing-Freeze Protection <ul style="list-style-type: none"> •Low temperature electric tracing lines •Process & impulse lines •Freeze protection or low-temperature maintenance

Maximum Allowable Working Pressure

Stainless Steel Seamless Tube

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)					
	0.5	0.8	1.0	1.2	1.5	2.0
6	215	358	459	566	737	-
8	160	263	335	410	528	-
10	127	208	264	322	412	571
12	-	172	218	265	337	465
15	-	-	173	209	265	363

(Unit : psi)

O.D. (inch)	Wall Thickness (inch)		
	0.035	0.049	0.065
1/4	5500	8000	11200
3/8	3600	5100	7000
1/2	2600	3800	5100

Stainless Steel Seam-welded Tube

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)					
	0.5	0.8	1.0	1.2	1.5	2.0
6	172	287	368	453	-	-
8	128	211	268	328	423	-
10	102	167	212	258	330	457
12	-	138	175	212	270	372
15	-	110	139	168	212	291

(Unit : psi)

O.D. (inch)	Wall Thickness (inch)		
	0.035	0.049	0.065
1/4	4400	6400	9000
3/8	2900	4100	5600
1/2	2100	3100	4100

Copper Tube (Soft-annealed)

(Unit : bar)

O.D. (mm)	Wall Thickness (mm)						O.D. (inch)	Wall Thickness (inch)	
	0.8	1.0	1.2	1.4	1.6	0.035		0.049	
6	95	120	150	-	-	1/4	95	150	
8	70	85	110	-	-				
10	55	70	85	105	-	3/8	60	95	
12	45	55	70	85	100				
15	35	45	55	65	-	1/2	45	70	

Cu-Ni(90/10) Tube

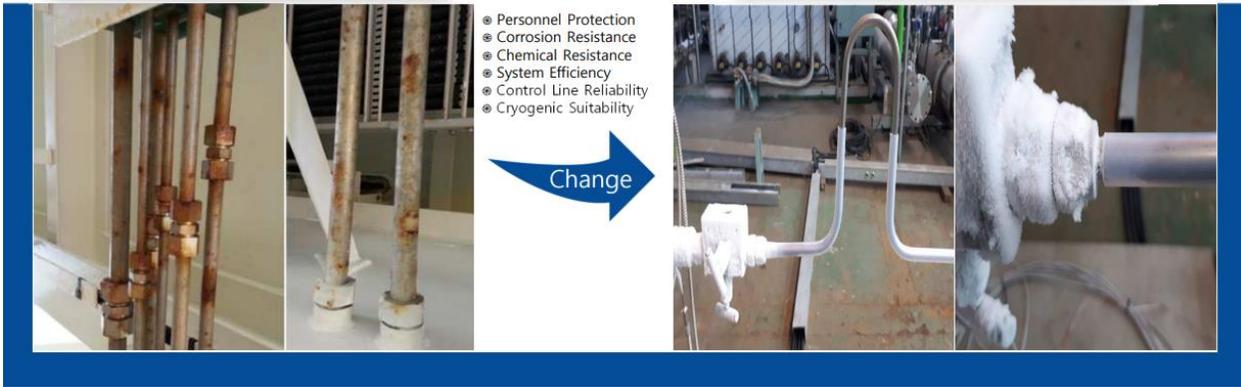
(Unit : bar)

O.D. (mm)	Wall Thickness (mm)						O.D. (inch)	Wall Thickness (inch)	
	0.8	1.0	1.2	1.4	1.5	0.035		0.049	
6	180	230	280	-	-	1/4	190	275	
8	130	165	205	-	-				
10	100	130	160	190	205	3/8	120	175	
12	-	105	130	155	165				
15	-	85	100	120	130	1/2	90	125	

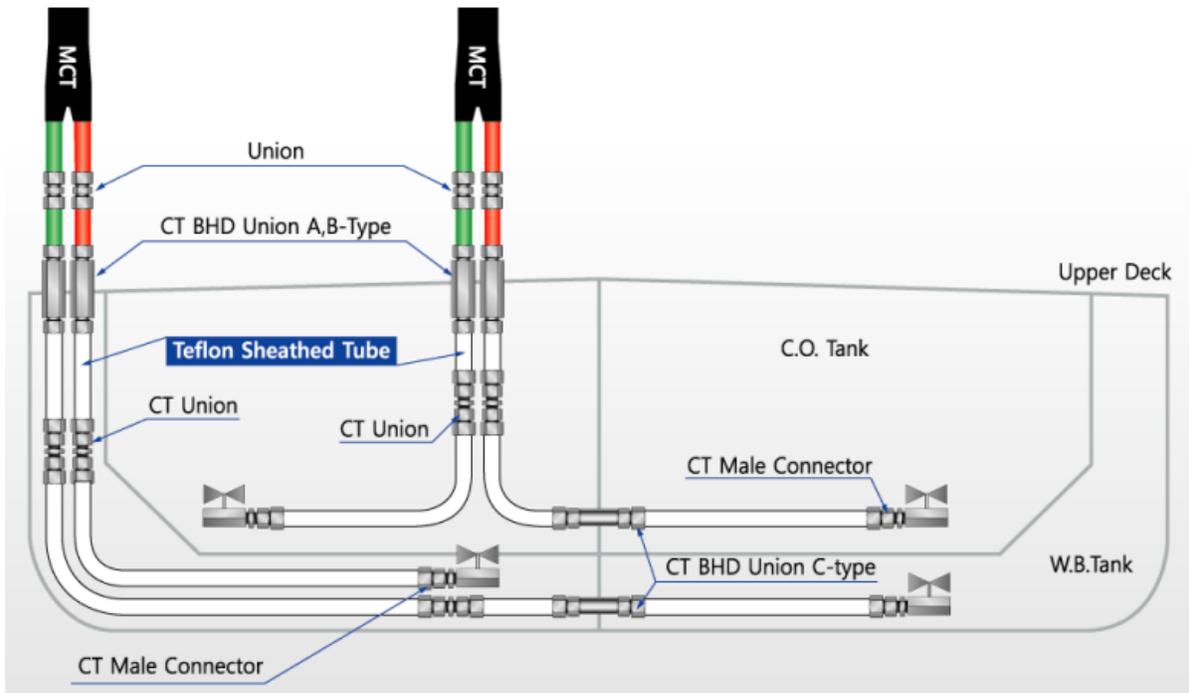
To protect personnel from a risk of frostbite or other injuries & prevent corrosion in tubing lines carrying liquefied natural gas (LNG) at cryogenic temperatures (-163°C = -261°F), using stainless steel TP316/316L seamless coil tubings in fluoropolymer sheathing, commonly known as Teflon out-sheath is an effective and reliable solution for people and LNG FGSS.

Conventional
Corroded Bare Stainless Steel Tubings in harsh Marine & Offshore Environments

DAECHUN Solution
Fluorinated Ethylene Propylene (FEP) Out-sheathed TP316/316L Seamless Coil Tubings



Recommended Installation inside Product Oil / Chemical Tanks



World's 1st Stainless Steel HVAC System

R U still brazing Copper tubing?

Highly flexible SS tubing & Push Fit Connector



Why suffer & waste?

Save money & time!

■ Highly Flexible Stainless Steel Tubing

- Compared to **STS304**
 - Hardness is about 58% lower than STS304
 - Lower yield strength compared to STS304
 - Easy bending by hands like copper tube
- Compared to **Copper tube**
 - Better Corrosion Resistance
 - Competitive & Stable Price
 - Superior Mechanical Properties

Elbow



Ybranch socket



Y branch flare socket



References

Main Customers



• ARAMCO Manufacturer ID: 10114535 ; Plant ID: 30016049 / 9COM: 6000000221



Do not hesitate to contact our team for more information regarding retrofit projects at:

Email: pms@piraeusmarineservices.gr

Website: www.piraeusmarineservices.gr